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TRUSCON heavy type CASEMENTS

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CATALOG No. 192

TRUSCON
heavy type
CASEMENTS

FOR
MONUMENTAL
PUBLIC AND
EDUCATIONAL
« BUILDINGS »
APARTMENTS
AND BETTER
RESIDENCES

TRUSCON STEEL COMPANY, YOUNGSTOWN, OHIO
SALES AND ENGINEERING OFFICES IN PRINCIPAL CITIES
EXECUTIVE OFFICES AND MAIN PLANT IN YOUNGSTOWN
FACTORIES IN DETROIT, CLEVELAND, LOS ANGELES, CANADA AND JAPAN
FOREIGN TRADE DIVISION IN NEW YORK

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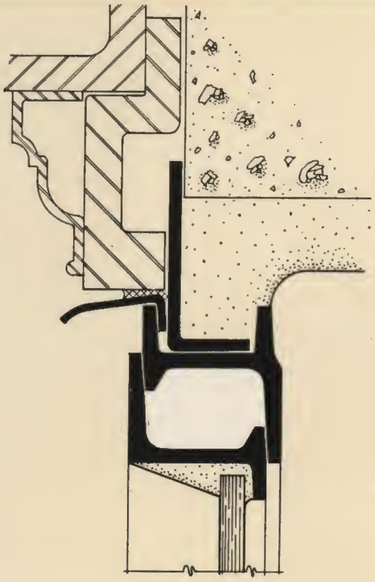

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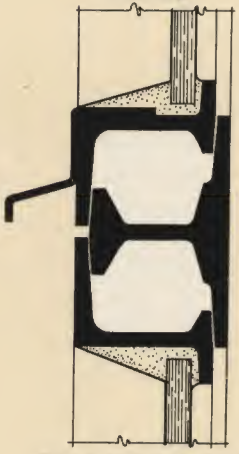
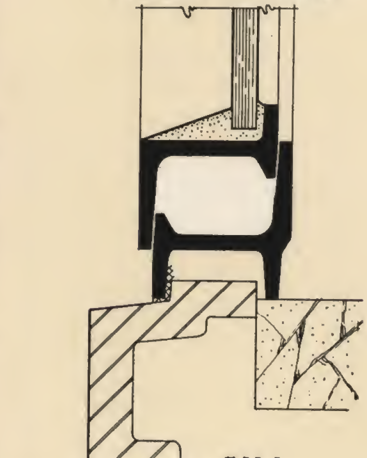


TRANSOM BAR



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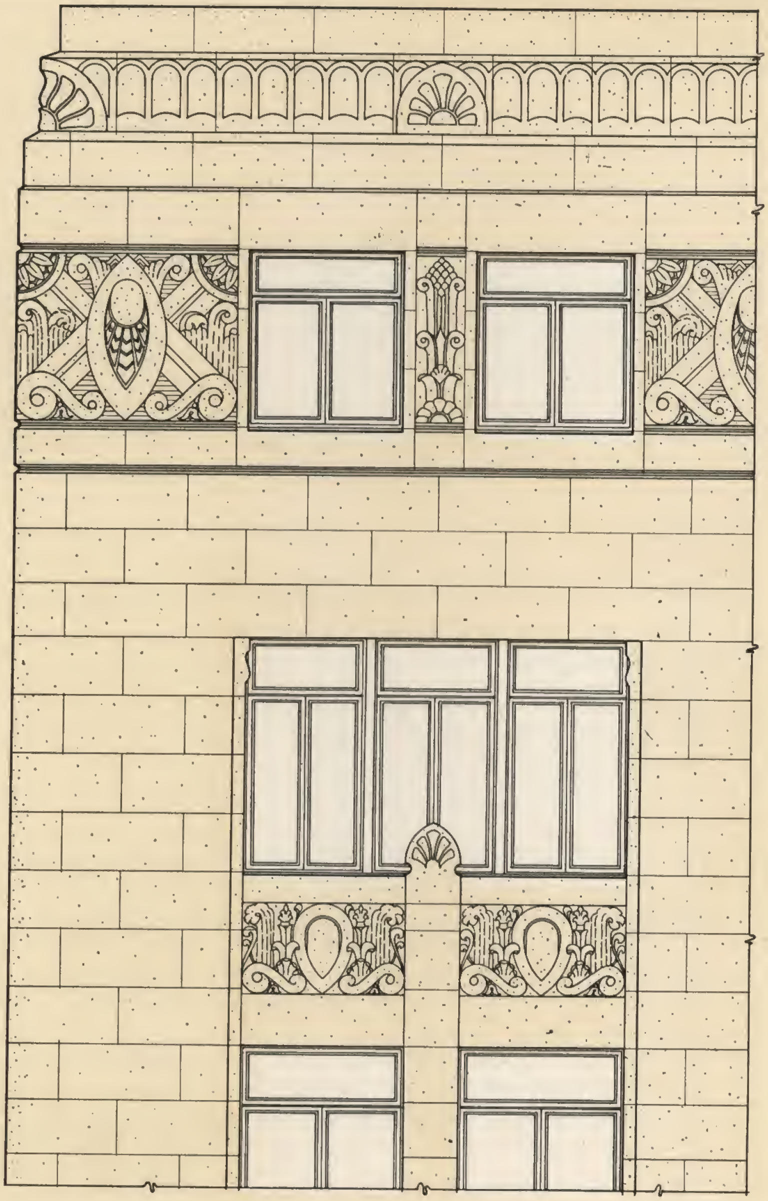

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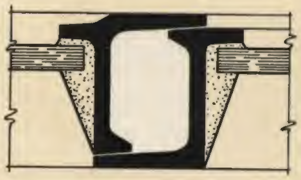
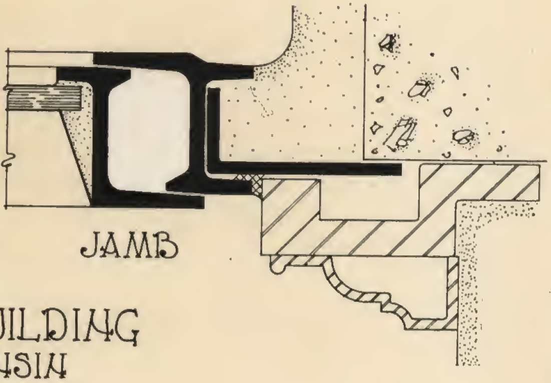


MEETING RAIL



JAMB

STATE OFFICE BUILDING

STATE OF WISCONSIN

MADISON WISCONSIN

ARTHUR PEABODY – STATE ARCHITECT

TRUSCON
heavy type
STEEL CASEMENTS

In presenting their new and superior Heavy Type Steel Casements for finer residences and apartments, for public and educational buildings, and for office and good buildings of all kinds—Truscon again makes a noteworthy contribution to the building art.

The need has long been felt for a far heavier type of casement for better class residential work, and for a similar type of casement with pressed steel frames to harmonize with the architectural treatment of monumental buildings.

Truscon Heavy Steel Casements meet these needs fully. Produced by the largest fabricator of steel products in the world, these casements are the result of long development and research. In addition to their many advanced features, they also incorporate superior quality, workmanship and the most modern improvements in hardware. Their outstanding advantages are briefly reviewed in the following summary:

SALIENT FEATURES

Built of heavy, solid, hot rolled sections made of copper-bearing steel and pressed steel drips formed from KA-2 Enduro rustless steel.

All units are square and true. Perfect double flat contact is maintained throughout of not less than 3/8″ between sash and frames.

These Casements lend themselves to the latest architectural developments and can be adapted to meet any desired specification. Numerous arrangements are possible and can be furnished to meet any monumental building requirements.

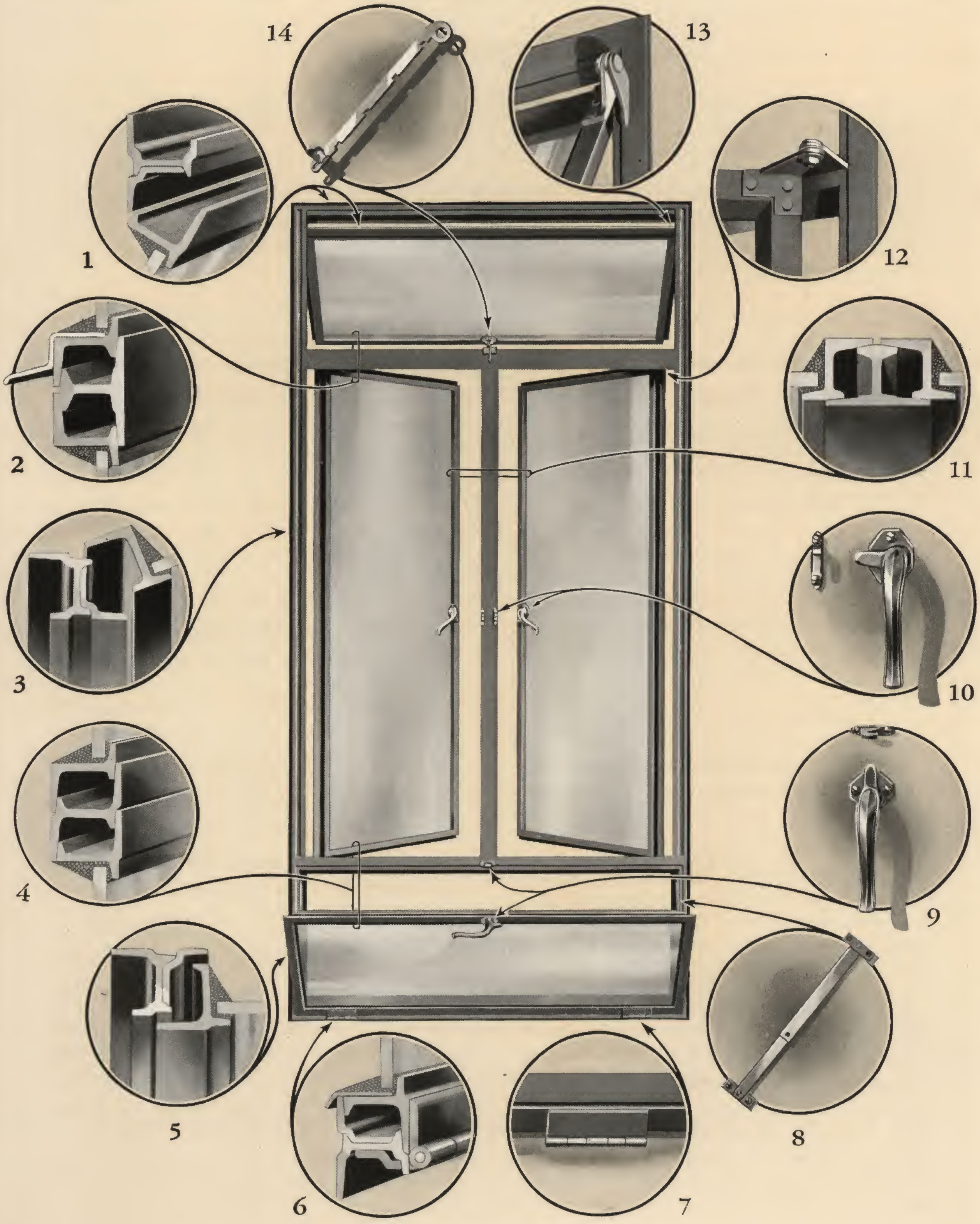
Truscon heavy type Casements are designed for either outside putty glazing with angle or spring wire clips, or inside glazing with solid section, hot rolled glazing bead. Swing out units furnished with either close offset or close-up type friction hinge—or swing in units with extruded bronze butt hinges. Swing out ventilators are recommended.

Continuous frame section in standard designs excludes necessity of built-up assembled units. Transoms and hopper vents, where required, are incorporated in one complete unit, making installations rigid and preventing possibilities of bowing and misalignment. Hopper vents at bottom solve ventilation problems and eliminate window guards.

Handles are furnished either in U. S. Government Standard No. 11, solid cast bronze, antique finish, of latest modernistic design, or in malleable iron, black finish, of same design.

Extension type friction hinges make window washing from the interior possible and exclude necessity of dangerous cleaning from the outside.

As is true with all steel window installations, maintenance costs are reduced. Steel windows do not warp, shrink or swell and are rugged and permanent.



CONSTRUCTION DETAILS

CONSTRUCTION DETAILS

1. Head of Ventilated Transom. Cross section of outside frame, 3/8" double contact weathering and top rail of transom vent.
2. Transom Bar between swing casement and transom. Note heavy Tee section, compact assembly with 3/8" double contact weathering and drip section of rustless KA-2 Enduro steel.
3. Jamb of Ventilated Casement. Showing outside frame, 3/8" double contact weathering and side rail of ventilator.
4. Meeting Rail between Hopper Vent and Swing Casement. Illustrating special Zee section, compact assembly and 3/8" double contact weathering.
5. Jamb of Hopper Vent. Section through outside frame, 3/8" double contact weathering and hopper side rail.
6. Sill of Hopper Vent. Note position and attachment of hinge, outside frame and bottom rail of hopper vent with drip section of KA-2 Enduro rustless steel and 3/8" double contact weathering.
7. Special Five-Knuckle, 3½" Extruded Bronze Hinge with 3/16" cold rolled steel pin, hinge screwed to frame and ventilator. Head of screws concealed on inside of sections and ground flush on outside face of hinge.
8. Vent Stop of Bronze, antique finish, designed to hold hopper vent open in any desired position.
9. Cam Latch Handle and Strike for swing in hopper vent, furnished in malleable iron, black finish, or U. S. Standard No. 11 cast bronze, antique finish, at slight additional cost.
10. Cam Latch Handle and Strike for swing out Casement, furnished in malleable iron, black finish, or U. S. Standard No. 11 cast bronze, antique finish, at slight additional cost.
11. Vertical Meeting Rail between swing casements. Note heavy Tee section flush on inside with frame, compact assembly and 3/8" double contact weathering.
12. Extension Type Friction Hinge, bronze bushed. Permits easy cleaning of the windows from the inside and positively holds the swinging casement in any desired position without requiring an adjuster.
13. Close-up Type Friction Hinge for Transom; can be adjusted for friction.
14. Bronze Push Bar with Latch for use with transom vents. Holds transom open in any desired position and may be operated with window pole.

SPECIFICATIONS

When specified, heavy type Casements can be furnished to "swing in." We recommend, as a general rule, Casements to "swing out."

GENERAL:

1 All window openings shown on drawings shall be fitted with Heavy Type Steel Casements as manufactured by the Truscon Steel Company of Youngstown, Ohio. No substitutions will be permitted without the written approval of the architect or engineer.

SCOPE OF WORK:

2 This Contractor shall include in his work the furnishing of all Steel Casements complete, in accordance with design and sizes as shown on drawing and covered by these specifications: the erection, the adjusting after erection and before glazing, and the attaching of hardware. This Contractor shall also furnish and apply the necessary mastic to insure a weather-tight installation.

WORK AND MATERIAL NOT INCLUDED:

3 Glass, putty, glazing and field painting are not included in this contract.

MATERIAL:

4 Truscon specification, new billet, hot rolled, copper-bearing steel shall be used in the manufacture of all members, with the exception of pressed drip strips which shall be formed from KA-2 Enduro rustless steel, securely welded to sash section.

CONSTRUCTION:

5 (A) All units shall be square and true and constructed of sections not less than $1\frac{7}{16}''$ deep. The outside framing section shall be a channel leg section, continuous from sill to head, and jamb to jamb, and shaped for perfect double flat contact and not less than $\frac{3}{8}''$ between frames and sash. Each corner of sash and frames shall be mitered, butt welded joint, ground smooth before assembly. The ventilators and frames shall be made perfectly straight and true to insure perfect weathering and ease of operation.

(B) Muntins, where required, shall be a specially designed Tee bar section and shall be continuous between rails and stiles. At intersections there shall be a mechanical joint rigidly interlocking the muntins flush with each other. Joints of muntins and frames, stiles and rails shall be tenoned, mortised and air-hammer riveted.

(C) All stiles, rails, frames and muntins shall be prepared for outside putty glazing with spring clips where muntin bars are used, and angle clips in units without muntin bars. (Inside putty glazing with spring or angle clips will be furnished if required. Solid section, hot rolled glazing beads, with oval head screws, will also be furnished if specified.)

(D) All swing out ventilators shall be equipped with Truscon specially constructed, heavy, bronze bushed extension type friction hinge, designed to hold window open in any desired position, securely riveted to rails of sash and electrically welded or riveted to frames. (Close-up extension type friction hinge will be used on transoms.) (Five-knuckle, $3\frac{1}{2}''$extruded bronze hinge with $\frac{3}{16}''$ cold rolled steel pin will be furnished if so specified at slight extra cost.)

(E) All swing in ventilators shall be equipped with five-knuckle, $3\frac{1}{2}''$ extruded bronze hinge with $\frac{3}{16}''$ cold rolled steel pin.

(F) All units with transoms or hopper vents shall be constructed with continuous frame section.

(G) A horizontal or vertical mullion can be used if desired for assemblying combination units and shall be a special shape, two-point contact lug bar, bolted between the outside sash sections and buttered at all contact points with mastic cement.

HARDWARE:

6 (A) All hardware shall be malleable iron, black finish, of a design as furnished by the Truscon Steel Company of Youngstown, Ohio. Solid cast bronze, antique finish, U. S. Standard No. 11, shall be furnished at slight extra cost.

(B) Hardware for Truscon heavy type Casements shall be numbered as indicated below.

- a—For single swing out vents, cam handle assembly, type P-2297, left hand, or P-2298, right hand.
- b—For single swing in vents, cam handle assembly, type P-2295, left hand, or P-2296, right hand, with necessary concealed friction adjusters K-12 in top rail.
- c—For transoms.
  - (aa) Type P-2361 push bar assembly for swing out transoms.
  - (bb) Type P-2304, spring latch, pole-operated assembly for swing in transoms.
  - (cc) Type P-2305, spring latch, cord-operated assembly, for swing in transoms.
- d—For swing in hopper vent cam handle assembly, type P-2303, with necessary vent stops No. 8 at side rails.
- e—For double swing out vents with clear opening (no meeting rail) Cremone bolt assembly, type P-2307, for outside glazing.
- f—For double swing out vents with clear opening (no meeting rail) Cremone bolt assembly, type P-2306, for inside glazing.
- g—For double swing in vents with clear opening (no meeting rail) Cremone bolt assembly, type P-2366, for inside glazing, with necessary friction adjusters K-12 concealed in top rail.
- h—For double swing in vents with clear opening (no meeting rail) Cremone bolt assembly, type P-2367, for outside glazing, with necessary concealed friction adjusters K-12 in top rail.
- i—For swing out vents exceeding 4′ 6″ in height, two-point locking device assembly, type P-2299 left hand or P-2300 right hand.
- j—For swing in vents exceeding 4′ 6″ in height, two-point locking device assembly, type P-2301 left hand or P-2302 right hand.
- k—When butt hinges are specified for swing out vents, thumb screw adjusters assemblies type 63-B right or left shall be furnished.

(C) All hardware shall be shipped unattached and packed separately to prevent damage and shall be applied after erection and painting.

NOTE: In designating hardware all Casements are viewed from the outside. Location of hinges determine right or left nomenclature of hardware.

PAINTING:

7 Casements shall be given one prime coat of Truscon specially prepared grey lacquer mineral paint at factory, capable of being sanded to a hard, smooth surface to which either lacquer or oil paints or enamels can be applied for finish coats. Paint shall be subject to a six-hundred (600) hour test in a weatherometer of cycles composed alternately of thirty (30) minutes of ultra-violet light and thirty (30) minutes of water spray (equivalent to 9 months outside exposure).

GLAZING:

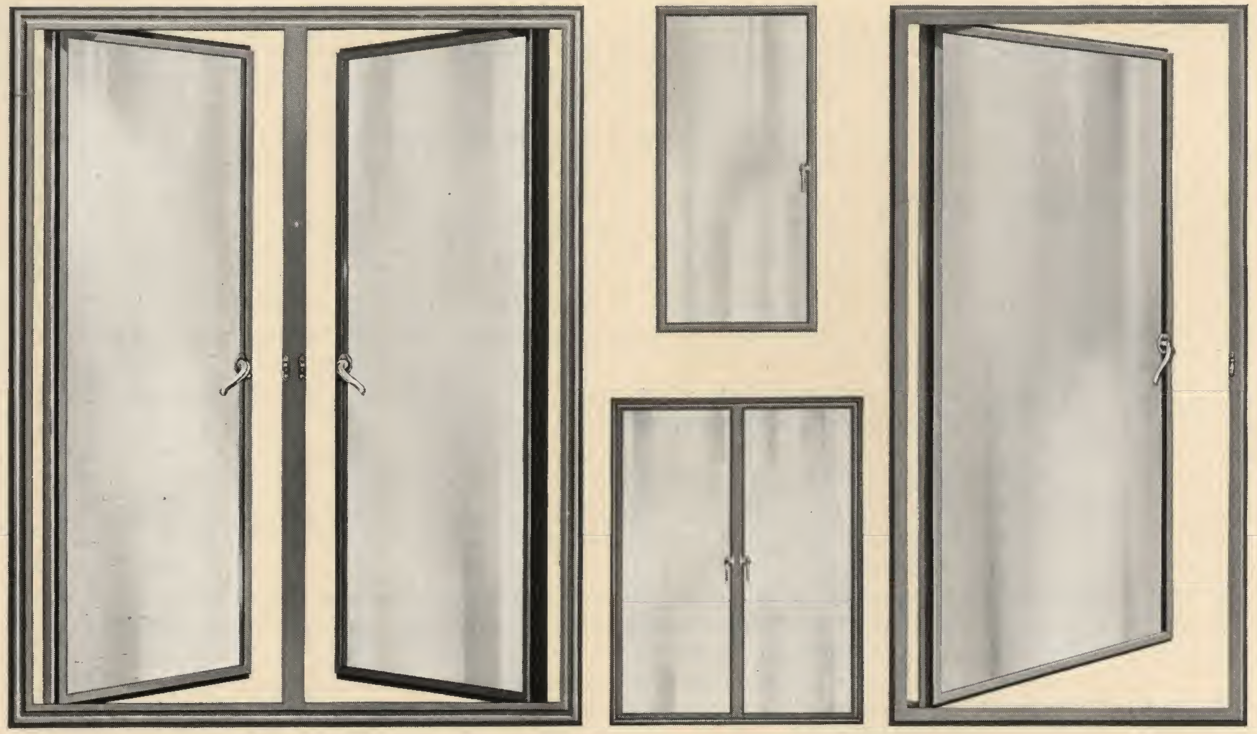
8 All casements shall be either inside or outside glazed. If inside glazed, glass shall be bed puttied and held in place with special section hot rolled glazing bead, attached with oval head screws or with glazing angle clips; if outside putty glazed, either spring clips or glazing angle clips shall be used. Putty shall be Truscon special casement window putty.

ERECTION:

9 (A) Each unit shall be set plumb and true in opening, securely wedged and held in alignment during construction. After windows have been placed in opening and before glazing, the ventilators shall be carefully adjusted so as to provide continuous contact between ventilators and frame and equal clearance shall be maintained around entire perimeter.

(B) Mastic in sufficient quantity shall be used in setting and bedding frames when they come in contact with mullions or wall construction.

NOTE: Mastic (one pound per six feet perimeter dimension of each unit) is furnished and shipped with Casements without additional charge.

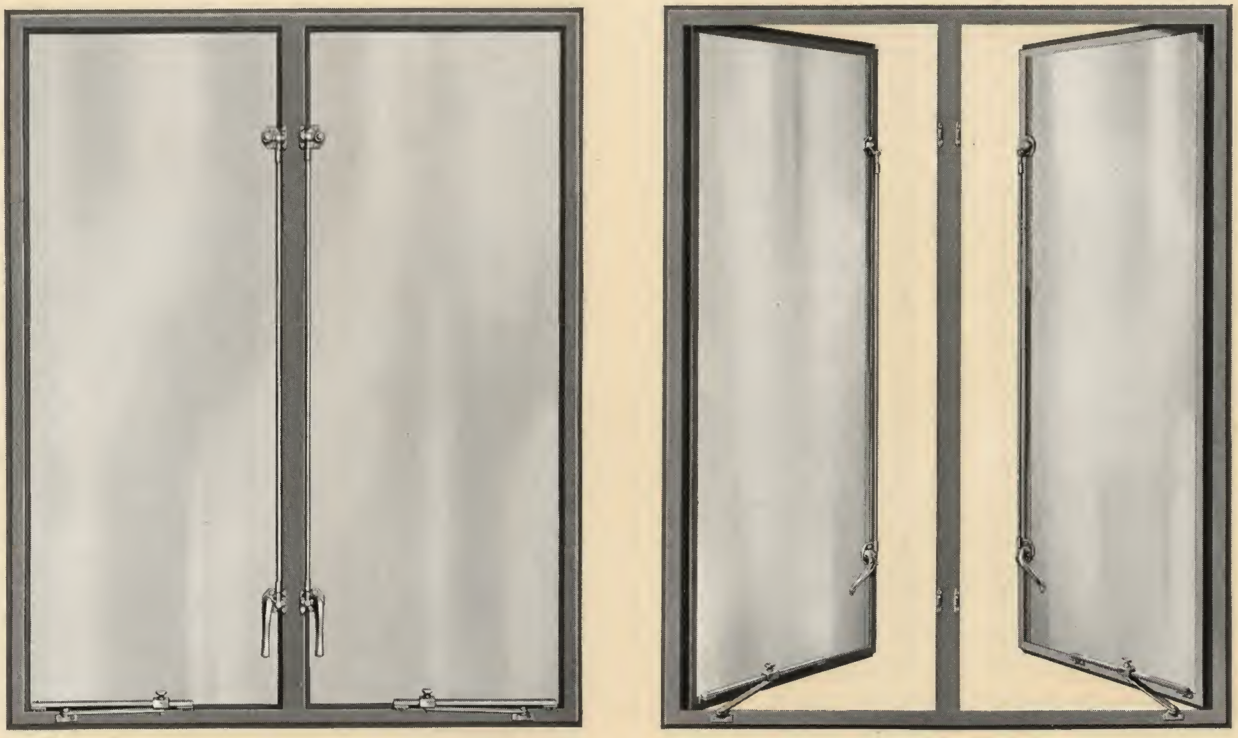


Single and Double "Swing Out" Units with Cam Handles

(Hardware illustrated and described on pages 12 and 13.)

The residence with Truscon heavy type Casements is recognized for its high quality. The single and double units may be installed separately or combined with mullions of steel, stone, brick or wood.

When specified, heavy type Casements can be furnished to "swing in." We recommend, as a general rule, Casements to "swing out."

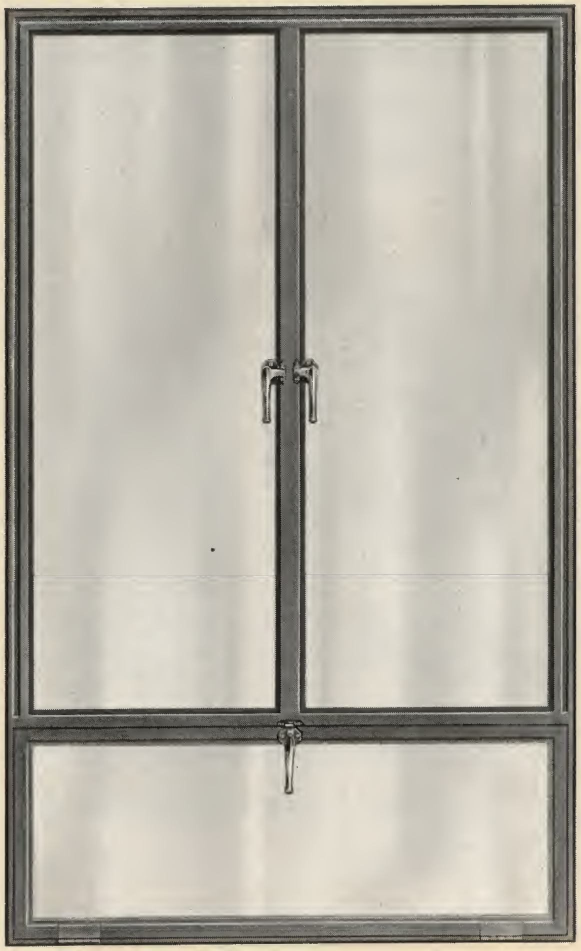


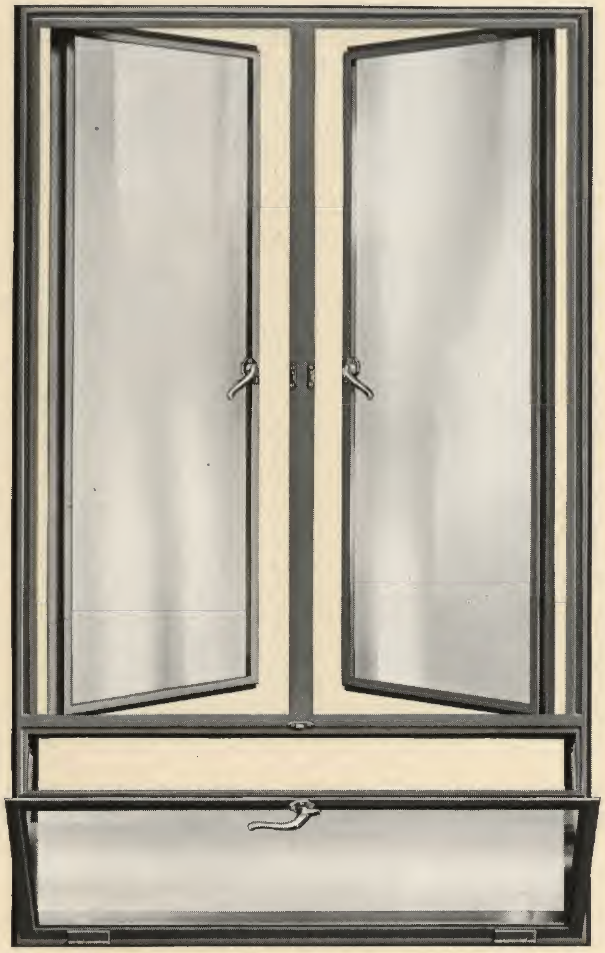
Double "Swing Out" Units with a Two-point Locking Device

(Hardware illustrated and described on pages 12 and 13.)

The attractiveness of modern apartments is greatly enhanced by Truscon heavy type Casements. Leaded glass may be installed in any unit. Double swing out casements are popular in all buildings.

When specified, heavy type Casements can be furnished to "swing in." We recommend, as a general rule, Casements to "swing out."



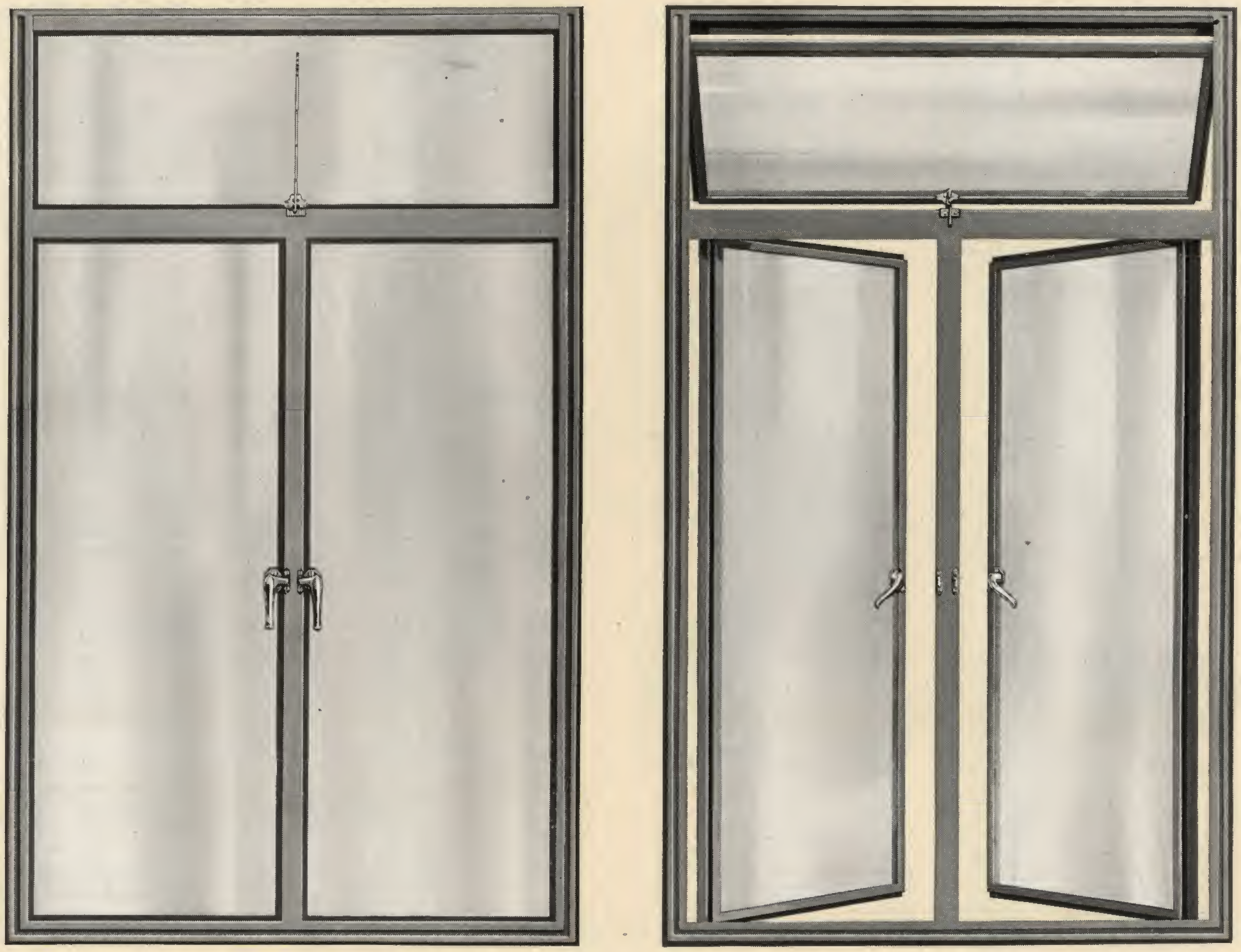


Double "Swing Out" Units with Hopper Vent

(Hardware illustrated and described on pages 12 and 13.)

In office buildings, Truscon heavy type Casements provide comfort, utility, and fire protection. Units with hopper vents give ample ventilation without draughts.

When specified, heavy type Casements can be furnished to "swing in." We recommend, as a general rule, Casements to "swing out."

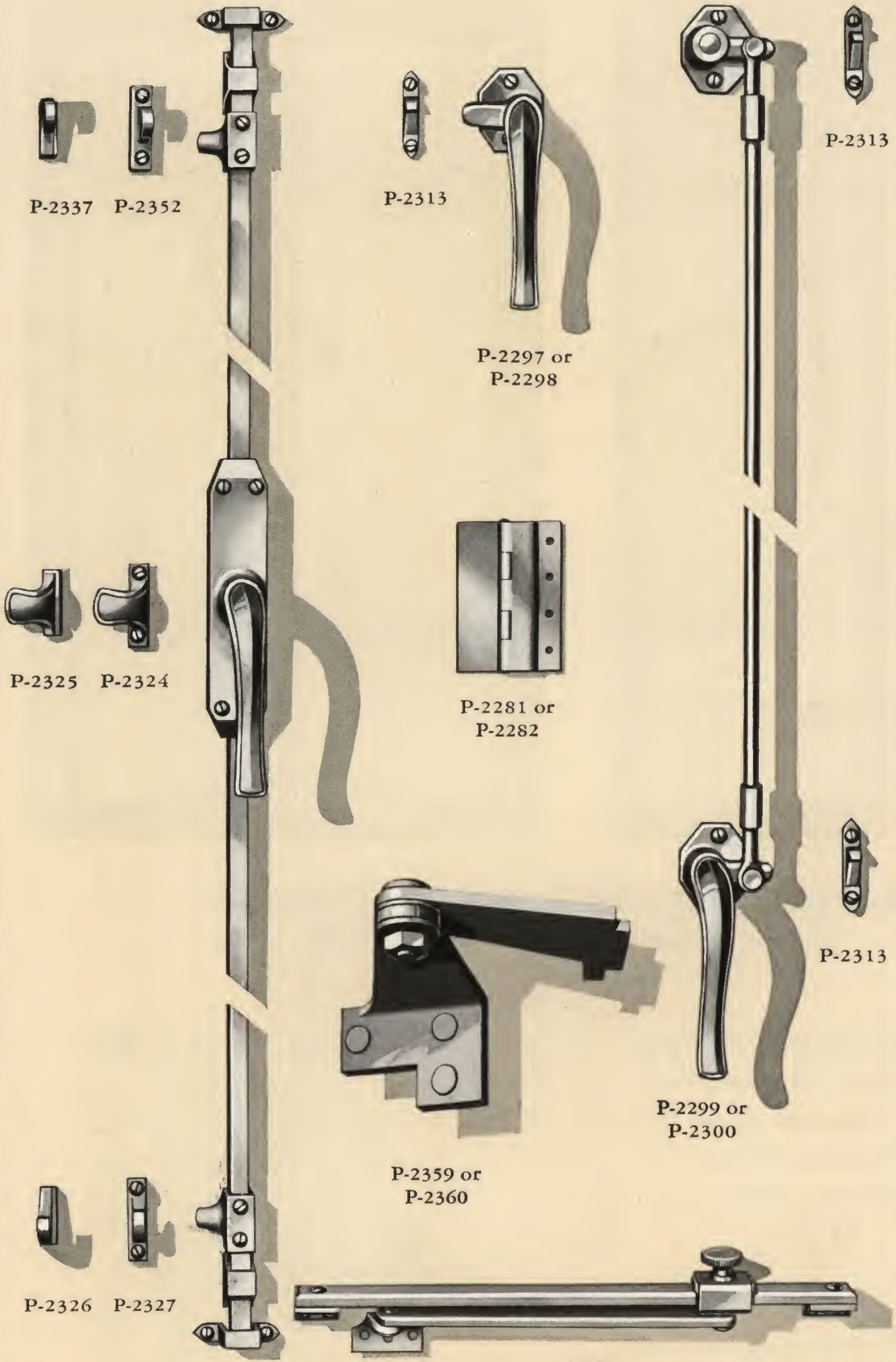


Double "Swing Out" Units with Transom

(Hardware illustrated and described on pages 12 and 13.)

Public and monumental buildings require windows of permanence and quality. Truscon heavy type Casements with transoms and hoppers are available for such purposes.

When specified, heavy type Casements can be furnished to "swing in." We recommend, as a general rule, Casements to "swing out."



CASEMENT HARDWARE

HARDWARE DESCRIPTION

P-2306
(Assembly Number)
Cremone bolt assembly with strike and finger pull, for double swing out casements with no meeting rail (clear opening) for inside glazing.

« »

P-2307
(Assembly Number)
Cremone bolt assembly with strike and finger pull, for double swing out casements with no meeting rail (clear opening) for outside glazing.

« »

P-2326
Strike plate at bottom with assembly P-2306.

« »

P-2327
Strike plate at bottom with assembly P-2307.

« »

P-2337
Strike plate at top with assembly P-2306.

« »

P-2352
Strike plate at top with assembly P-2307.

« »

P-2325
Finger pull with assembly P-2306.

« »

P-2324
Finger pull with assembly P-2307.

« »

P-2297
(Assembly Number)
Left-hand Cam Handle with strike for swing out vents.

« »

P-2298
(Assembly Number)
Right-hand Cam Handle with strike for swing out vents.

« »

P-2313
Strike plate for P-2297 and P-2298

« »

P-2359
(Assembly Number)
Extension type Friction Hinge, left-hand.

« »

P-2360
(Assembly Number)
Extension type Friction Hinge, right-hand.

« »

63-B
Thumb screw adjuster used when butt hinges are furnished for swing out vents.

HARDWARE DESCRIPTION

P-2281
Butt Hinge for swing out vents.

« »

P-2282
Butt Hinge for swing in vents.

« »

P-2299
(Assembly Number)
Left-hand two point locking device with strike, for swing out casements over 4′-6″ in height.

« »

P-2300
(Assembly Number)
Right-hand two point locking device with strike, for swing out casements over 4′-6″ in height.

« »

P-2313
Strike plate for P-2299 and P-2300 assembly.

« »

P-2303
(Assembly Number)
Cam Handle with strike for swing in hopper vent.

« »

P-2351
Strike plate for P-2303.

« »

P-2377
Mortise cylinder lock, door handles and thumb turn for Casement Door.

« »

P-2305
(Assembly Number)
Spring Latch, cord operated, with strike, for swing in transom.

« »

P-2344
Strike plate for P-2305.

« »

P-2304
(Assembly Number)
Spring Latch, pole operated, with strike, for swing in transom.

« »

P-2341
Strike plate for P-2304.

« »

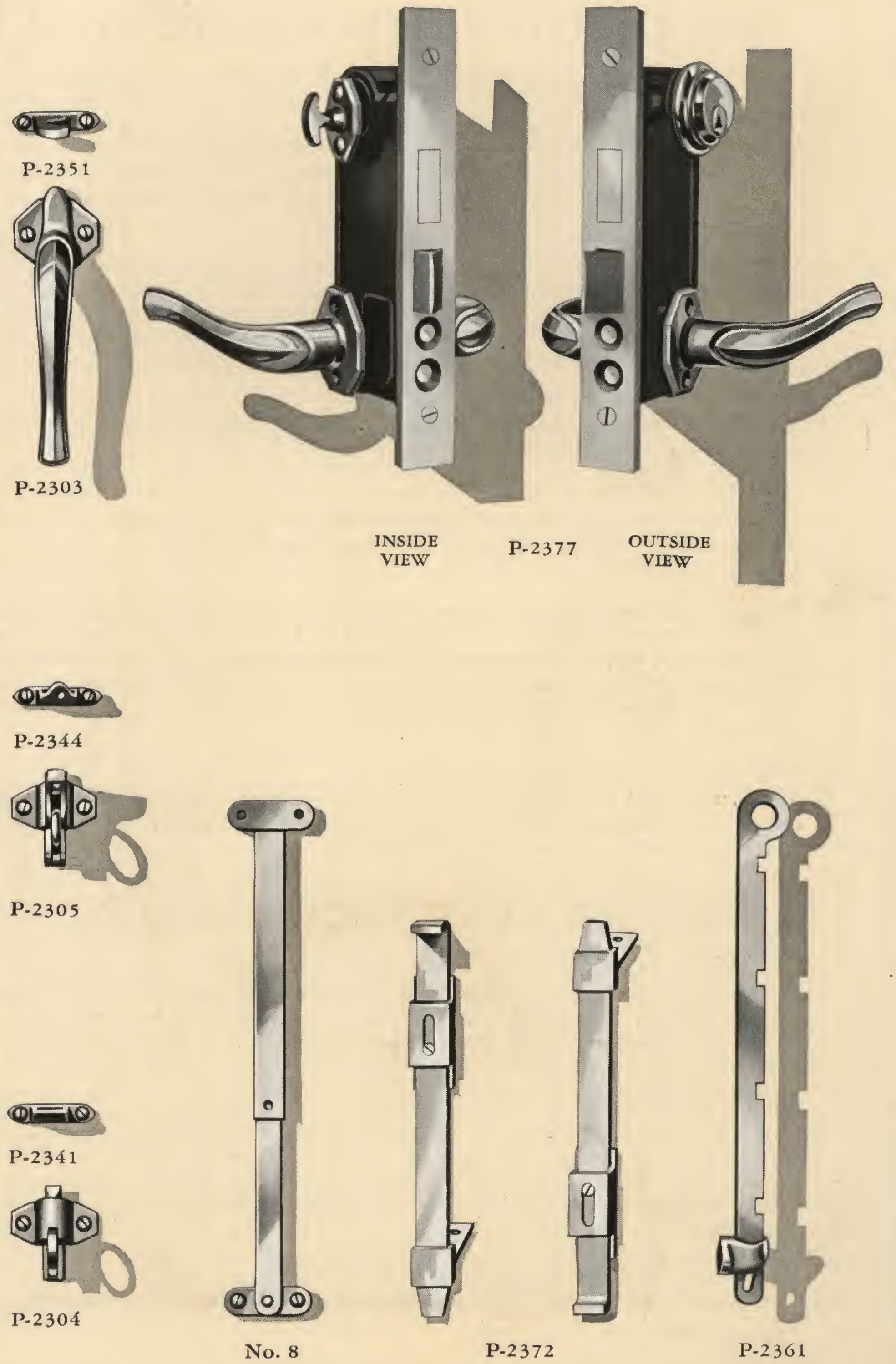
No. 8
Stop, concealed in side rail. Used for swing in hopper vents.

« »

P-2372
Top and bottom bolts for Casement Door.

« »

P-2361
Push Bar assembly for swing out transoms.



CASEMENT HARDWARE

SPECIFICATIONS FOR PRESSED STEEL FRAMES

FOR USE WITH HEAVY TYPE CASEMENTS

GENERAL:

1 All openings with frames as shown on drawings shall be fitted with pressed steel frames as manufactured by the Truscon Steel Company of Youngstown, Ohio. No substitution will be permitted without the written approval of the architect or engineer.

SCOPE OF WORK:

2 This Contractor shall include in his work the furnishing of all pressed steel frames and casements in accordance with design and sizes as shown on drawings, and covered by these specifications: the erection of frames and casements, the adjusting of casements after erection, and before glazing, and the attaching of hardware. This Contractor shall also furnish and apply the necessary mastic to insure a weathertight installation.

MATERIAL:

3 Sheet steel used for frames shall be of 12-gauge copper-bearing, cold rolled, full pickled and annealed steel of U. S. Standard gauge.

CONSTRUCTION:

4 All corners shall be welded and ground smooth, giving a straight, true and square frame. The frames shall be drilled and tapped for securing the windows.

PAINTING:

5 Frames shall be given one prime coat of Truscon specially prepared grey lacquer mineral paint at factory, capable of being sanded to a hard, smooth surface to which either lacquer or oil paint or enamels can be applied for finish coats. Paint shall be subject to a six-hundred (600) hour test in a weatherometer of cycles, composed alternately of thirty (30) minutes of ultra-violet light and thirty (30) minutes of water spray (equivalent to nine months outside exposure).

ERECTION:

6 All frames shall be set plumb and true in openings securely wedged and held in alignment during construction. Frames shall be thoroughly caulked around the entire perimeter of opening, so as to assure perfect weathering.

SPECIFICATIONS FOR CASEMENT DOORS

GENERAL:

1 All openings shown on drawings, requiring steel casement doors, shall be fitted with Truscon heavy section Casement Doors as manufactured by Truscon Steel Company of Youngstown, Ohio. No substitution will be permitted without the written approval of the architect or engineer.

SCOPE OF WORK:

2 This Contractor shall include in his work the furnishing of all Steel Casement Doors, in accordance with design and sizes as shown on drawings and covered in these specifications: the erection, the adjusting after erection and before glazing, and the attaching of hardware. This Contractor shall also furnish and apply the necessary mastic to insure a weathertight installation.

WORK AND MATERIAL NOT INCLUDED:

3 Glass, putty, glazing and field painting are not included in this contract.

MATERIAL:

4 Truscon specifications, new billet, hot rolled, copper-bearing steel shall be used in the manufacture of all members, including 12-gauge kick plate at bottom of doors. Threshold shall be

extruded bronze, 4¼″ in width with double contact weathering, including spring-bronze weatherstrip.

CONSTRUCTION:

5 (A) All doors shall be square and true and constructed of sections not less than 1⁷⁄₁₆″ deep. The outside framing section shall be a channel leg section, continuous from head to sill and the head section from jamb to jamb, and shaped for perfect double contact weathering not less than ⅜″ between door leaf and frame. Each corner of the door leaf and frame shall be mitered, butt-welded joint, ground smooth before assembly. Door leaf and frame shall be made perfectly straight and true to insure perfect weathering and ease of operation.

(B) Muntins shall be of a specially designed Tee bar section and shall be continuous between rails and stiles. At intersections there shall be a mechanical joint rigidly interlocking the muntins flush with each other. Joints of muntins and frames, stiles and rails shall be tenoned, mortised and air-hammer riveted.

(C) All stiles, rails, frames and muntins shall be prepared for outside putty glazing with spring clips. (Inside putty glazing with spring clips will be furnished if required. Solid section, hot rolled glazing bead with oval head screws will be furnished also, if specified.)

(D) Horizontal or vertical mullions can be used if desired for assembling casement windows with doors and shall be a special two-point contact lug bar, bolted between the outside sash sections and buttered at all contact points with mastic cement.

HARDWARE:

6 (A) All hardware shall be malleable iron, black finish, of a design as furnished by the Truscon Steel Company of Youngstown, Ohio.

(B) Solid cast bronze, antique finish, U. S. Standard No. 11 will be furnished at slight extra cost.

(C) Casement doors shall swing outwardly and shall be hung on heavy five-knuckle 3½″ extruded bronze hinges with ³⁄₁₆″ cold rolled steel pin. (Inswinging doors will be furnished when specified.)

(D) Doors shall be equipped with top and bottom bolts concealed in meeting rail. Mortise cylinder lock provided on outside of one leaf and thumb-turn on inside with lever handles on both outside and inside. Opposite leaf shall be equipped with dummy lever handles on inside and outside.

PAINTING:

7 Casement doors shall be given one prime coat of Truscon specially prepared grey lacquer mineral paint at factory, capable of being sanded to a hard, smooth surface to which either lacquer or oil paints or enamels can be applied for finished coats. Paints shall be subject to a six-hundred (600) hour test in a weatherometer of cycles composed alternately of thirty (30) minutes of ultra-violet light and thirty (30) minutes of water spray (equivalent to nine months outside exposure).

GLAZING:

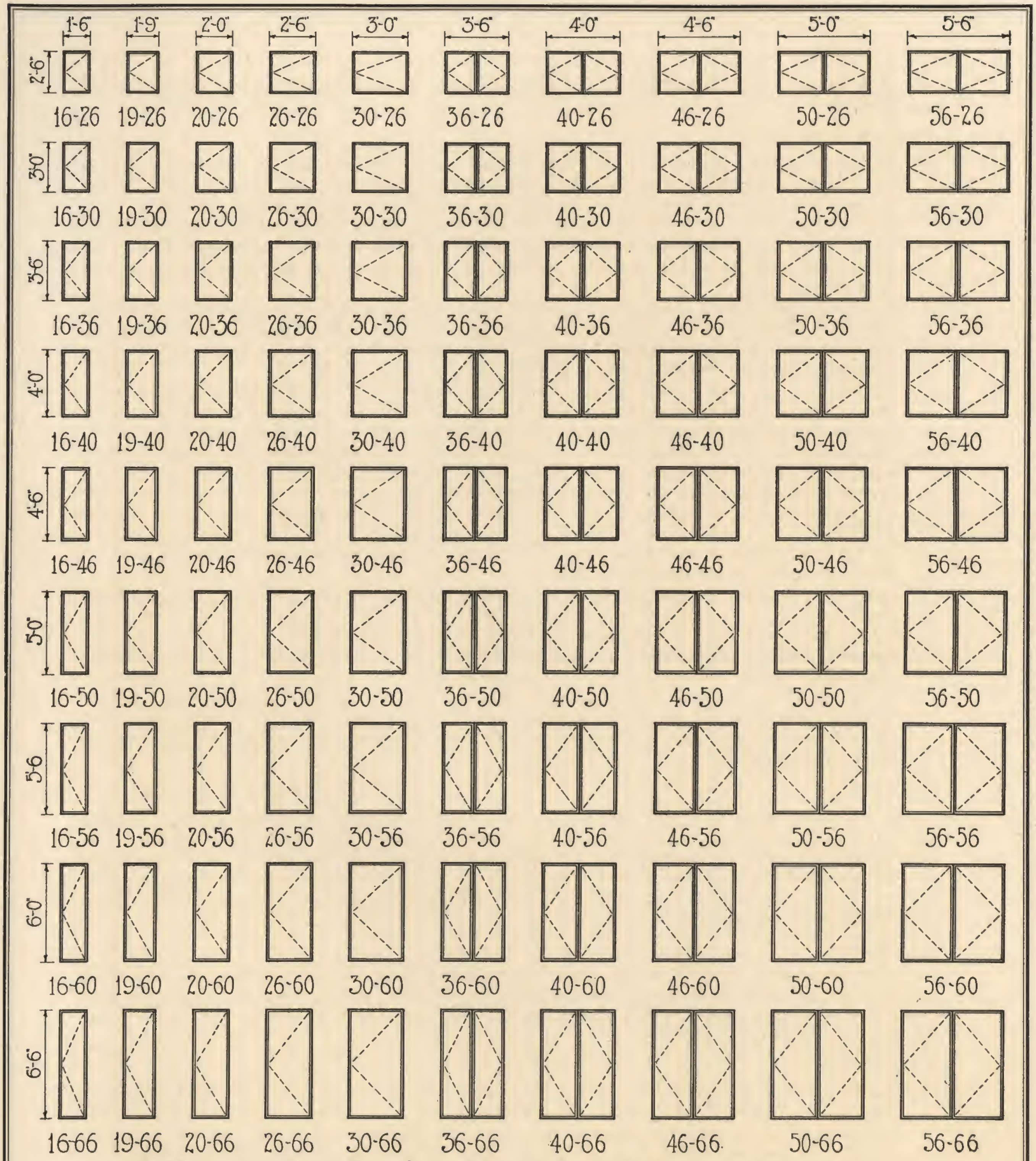
8 All casement doors shall be either inside or outside glazed. If inside glazed, glass shall be bed-puttied and held in place with special section, hot rolled glazing bead, attached with oval head screws, and if outside putty glazed, spring clips shall be used. Putty shall be Truscon special casement window putty.

ERECTION:

9 (A) Each unit shall be set plumb and true in opening, securely wedged and held in alignment during construction. After doors have been placed in opening, and before glazing, the leaves shall be carefully adjusted so as to provide continuous contact between the door leaf and frame and equal clearance shall be maintained around the entire perimeter.

(B) Mastic in sufficient quantity shall be used in setting and bedding frames when they come in contact with mullions or wall construction.

NOTE: Mastic (one pound per six feet perimeter dimension of each unit) is furnished and shipped with doors without additional charge.

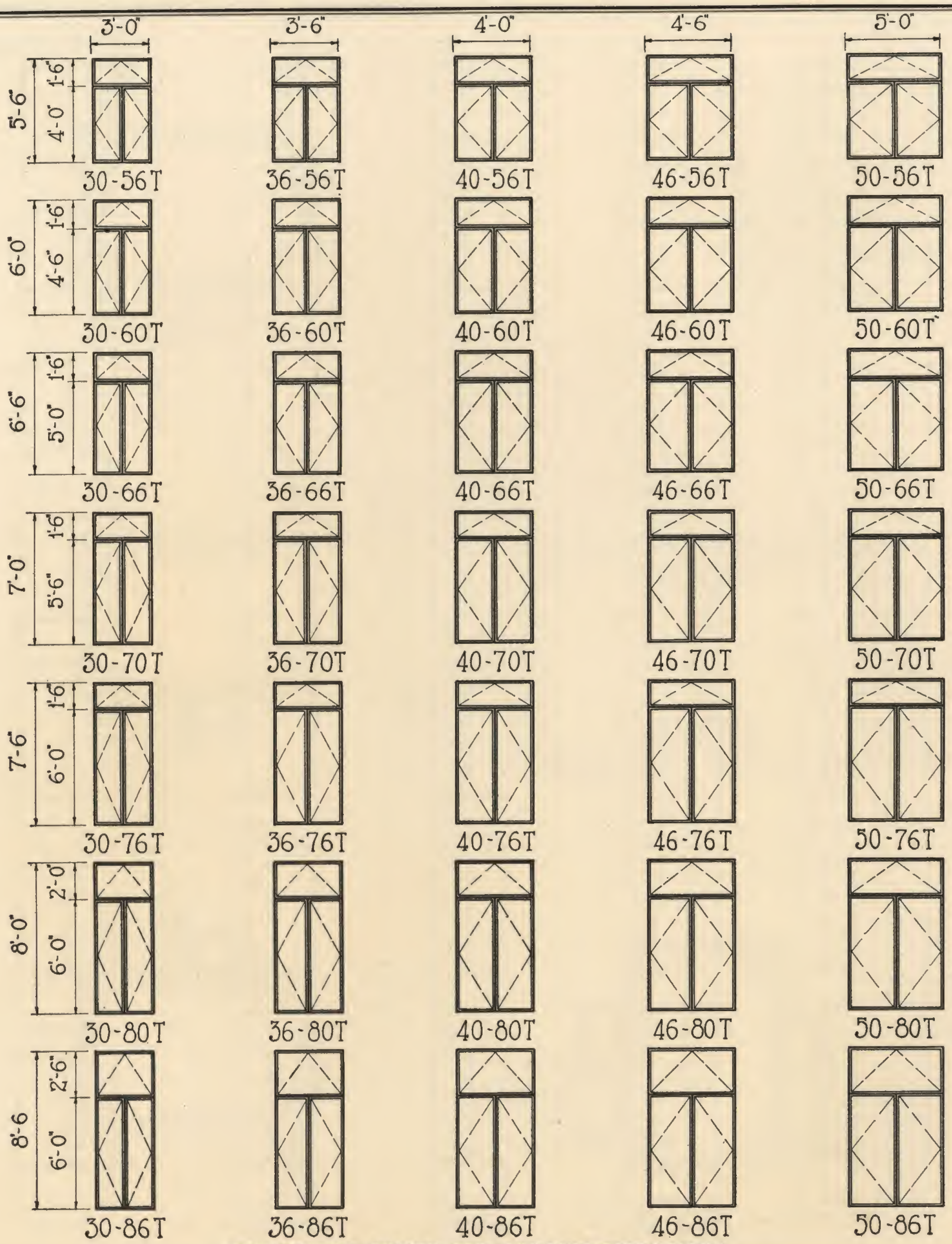


NOTE:~ SINGLE UNITS MAY HAVE LEFT OR RIGHT HANDING AS REQUIRED.
DIMENSIONS SHOWN ARE OPENING DIMENSIONS

TRUSCON
STEEL COMPANY
Youngstown, Ohio

STANDARD UNITS
HEAVY TYPE CASEMENTS

PLATE No.
H-1
JULY, 1930

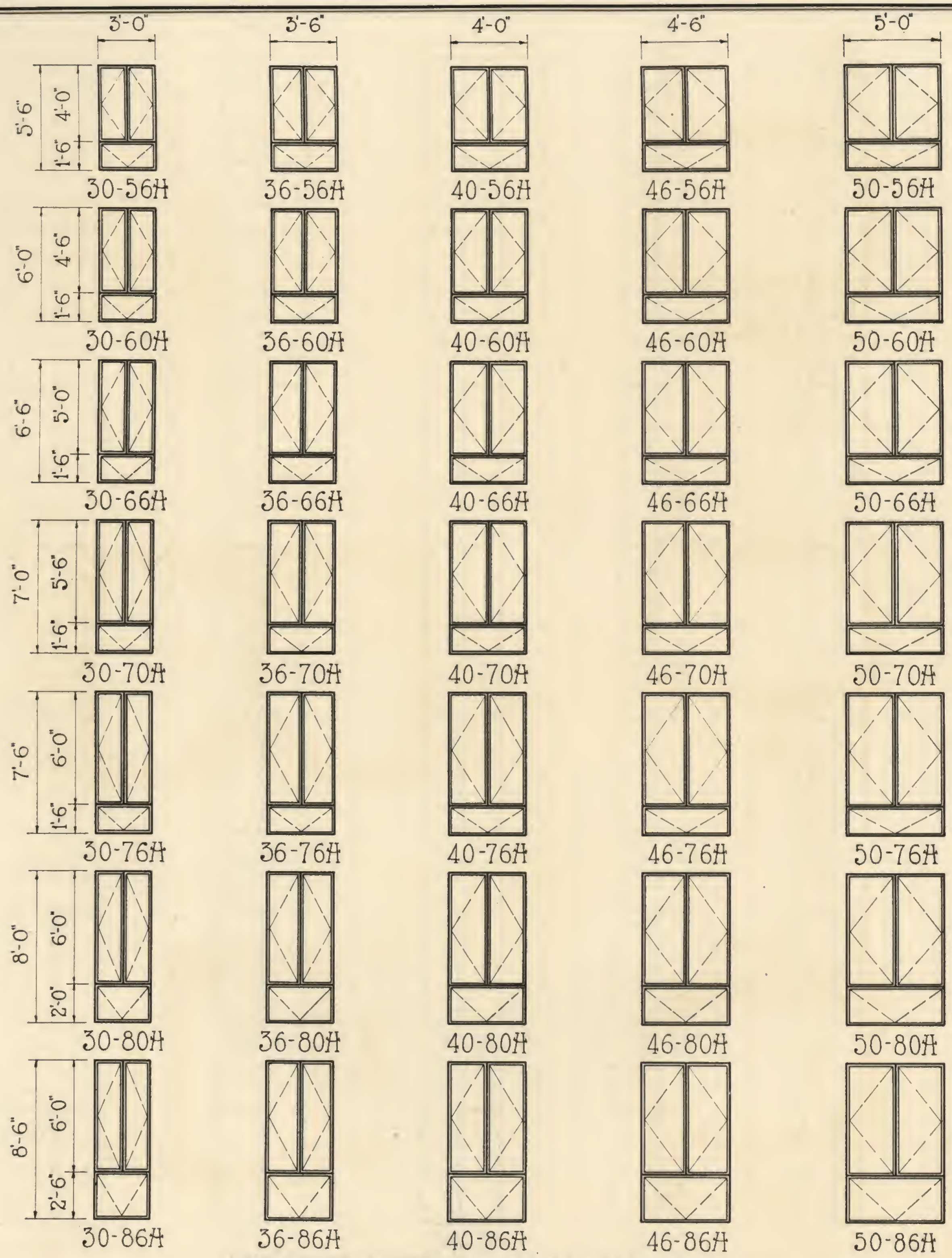


DIMENSIONS SHOWN ARE OPENING DIMENSIONS

TRUSCON
STEEL COMPANY
Youngstown, Ohio

STANDARD UNITS WITH TRANSOMS
HEAVY TYPE CASEMENTS

PLATE No.
H-2
JULY, 1930



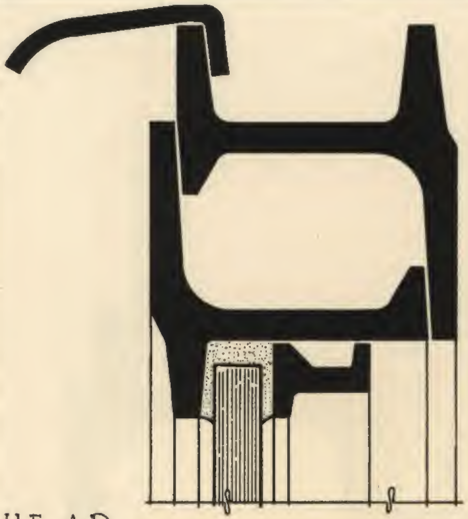
DIMENSIONS SHOWN ARE OPENING DIMENSIONS

TRUSCON
STEEL COMPANY
Youngstown, Ohio

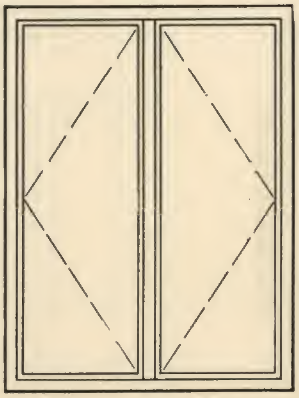
STANDARD UNITS WITH HOPPER VENTS

HEAVY TYPE CASEMENTS

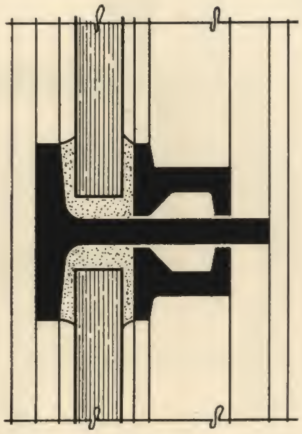
PLATE No.
H-3
JULY, 1930



HEAD



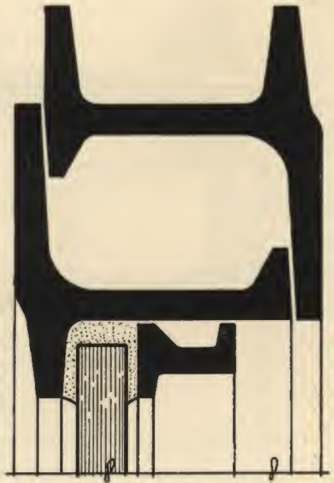
ELEVATION OF TYPICAL UNIT



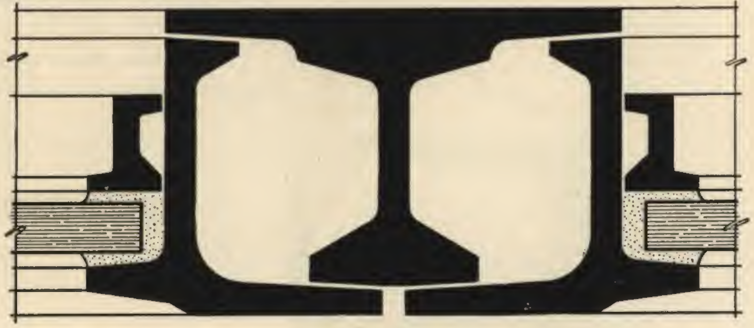
MUNTIN

NOTES

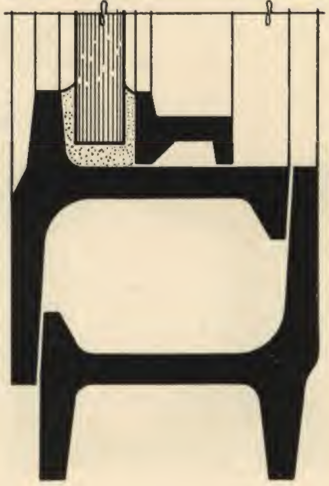
GLAZING BEADS CAN BE FURNISHED AS SHOWN WHEN REQUIRED. STANDARD GLAZING CONDITION SHOWN ON SHEET A-5 AND A-6.



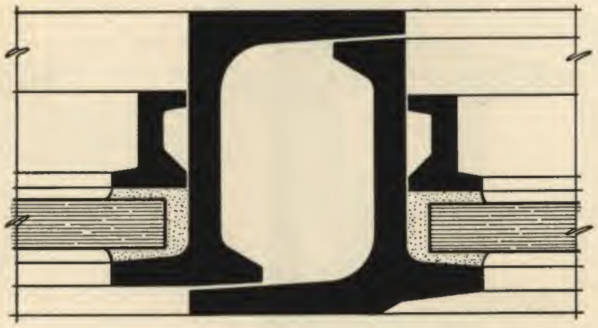
JAMB



MEETING RAIL
WITH VERTICAL MULLION
(STANDARD)



SILL



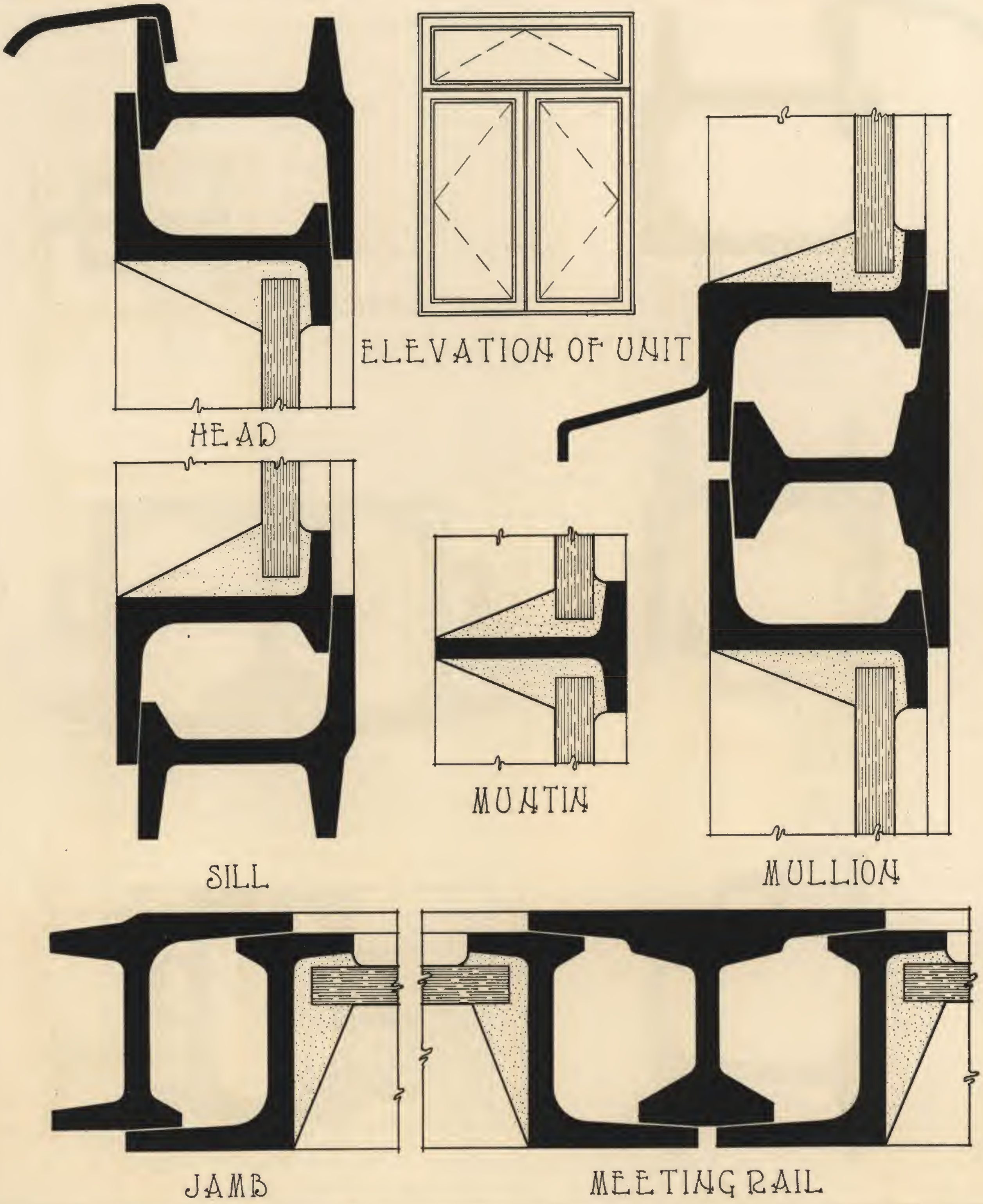
MEETING RAIL
(SPECIAL)

TRUSCON
STEEL COMPANY
Youngstown, Ohio

SWING OUT UNITS « » FULL SIZE SECTIONS

HEAVY TYPE CASEMENTS

PLATE No.
H-4
JULY, 1930

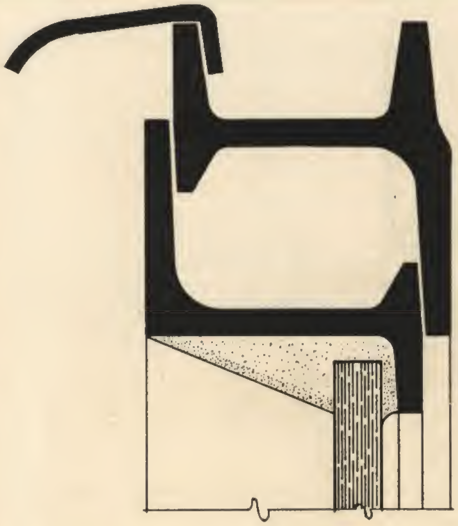


TRUSCON
STEEL COMPANY
Youngstown, Ohio

SWING OUT UNITS WITH TRANSOMS « » FULL SIZE SECTIONS

HEAVY TYPE CASEMENTS

PLATE No.
H-5
JULY, 1930



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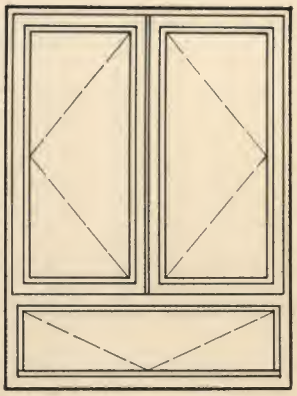
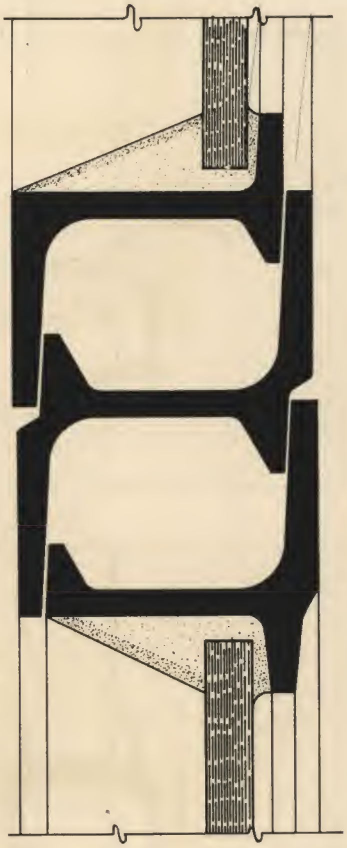
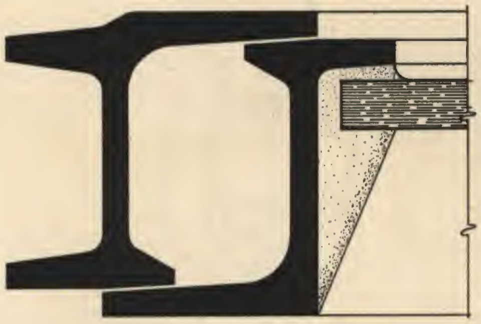


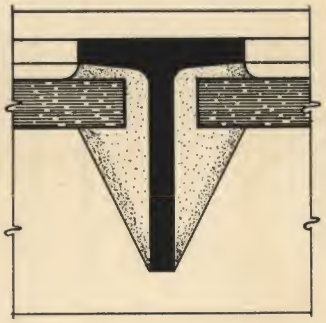
ELEVATION OF UNIT



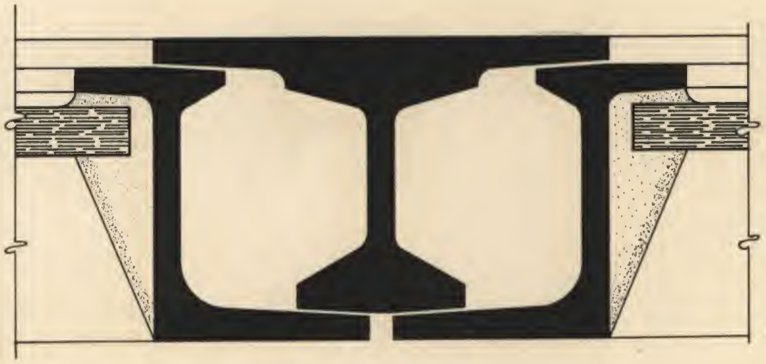
MULLION



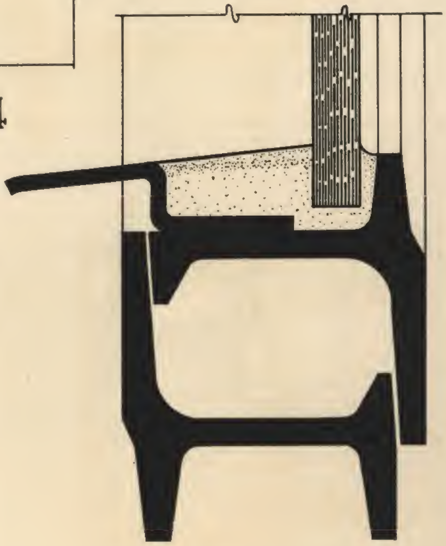
JAMB THRU VENT



MUNTIN



MEETING RAIL



SILL

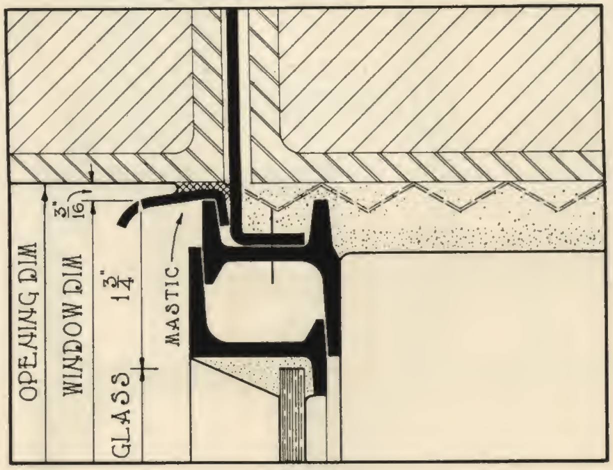
TRUSCON
STEEL COMPANY
Youngstown, Ohio

SWING OUT UNITS WITH HOPPER VENTS « » FULL SIZE SECTIONS

HEAVY TYPE CASEMENTS

PLATE No.
H-6
JULY, 1930

SOLID MASONRY



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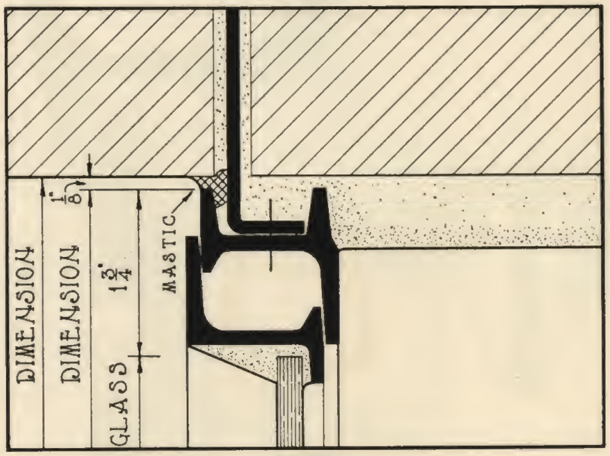
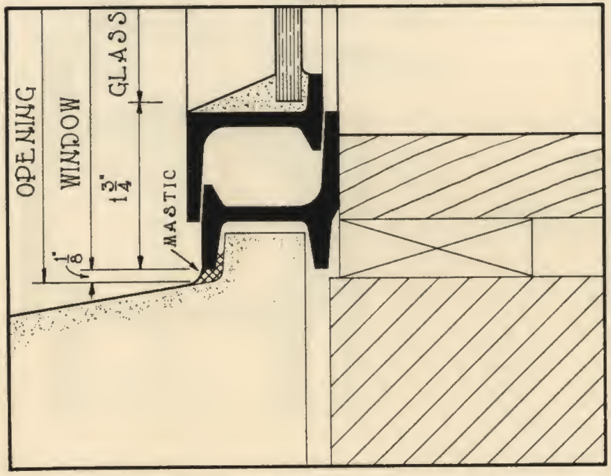
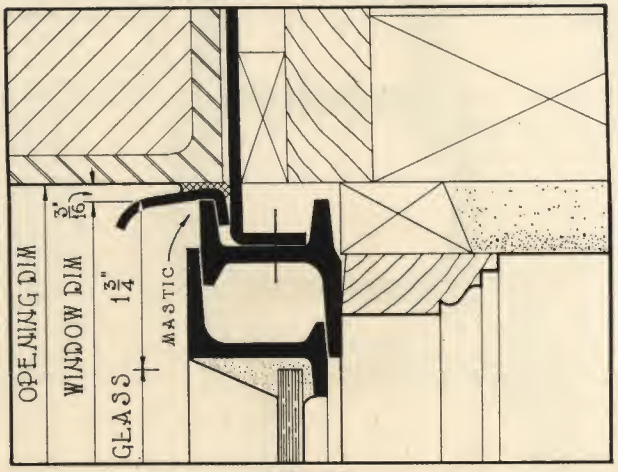


JAMB

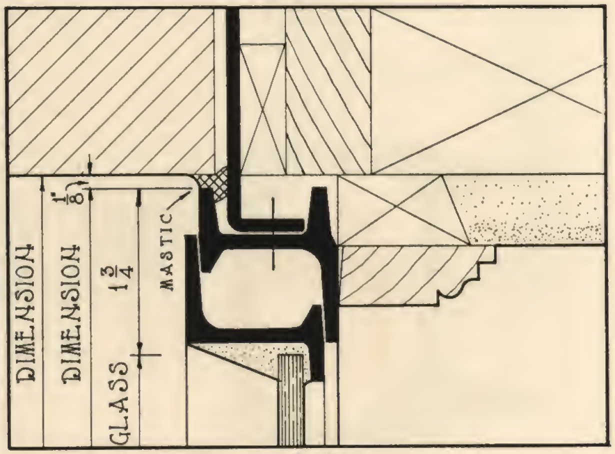


SILL

BRICK VENEER



HEAD



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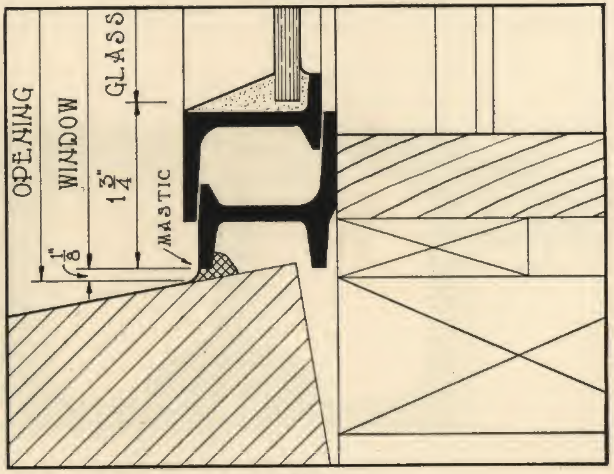


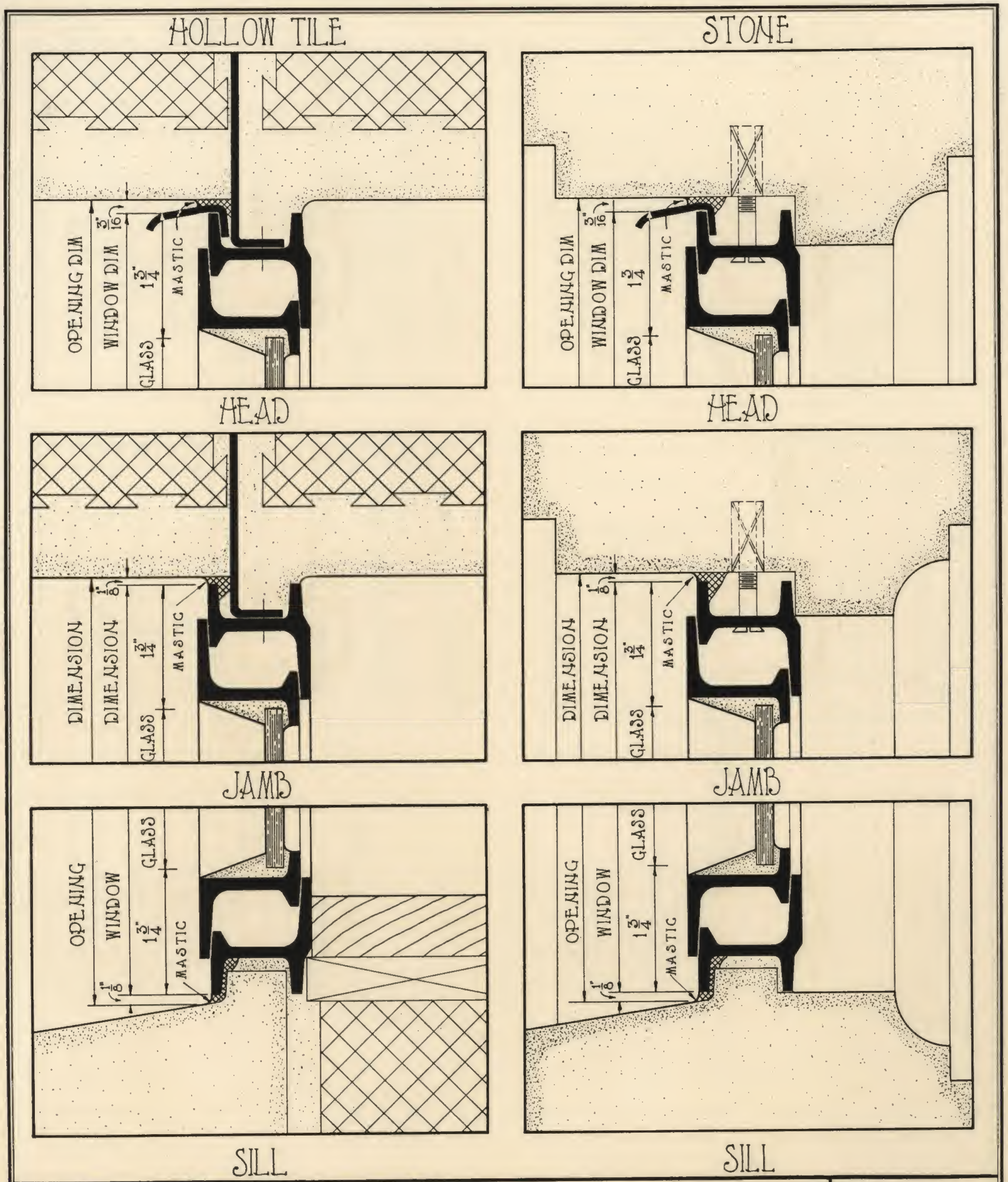
SILL

TRUSCON
STEEL COMPANY
Youngstown, Ohio

CONSTRUCTION DETAILS » « SOLID MASONRY AND BRICK VENEER

HEAVY TYPE CASEMENTS

PLATE No.
H-7
JULY, 1930



TRUSCON
STEEL COMPANY
Youngstown, Ohio

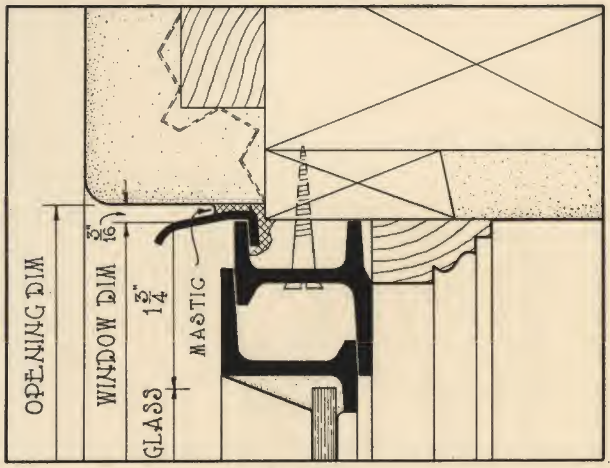
CONSTRUCTION DETAILS » « HOLLOW TILE AND STONE

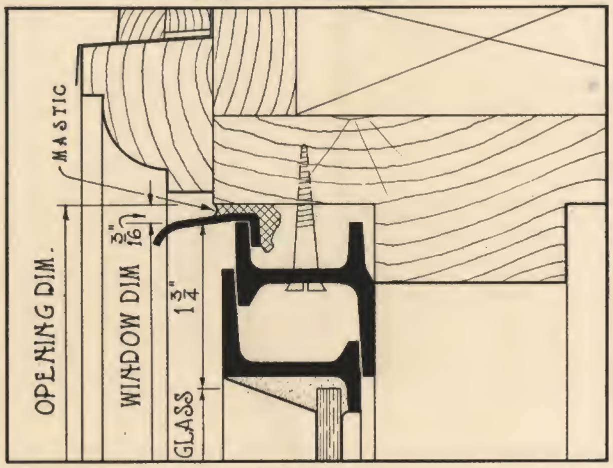
HEAVY TYPE CASEMENTS

PLATE No.
H-8
JULY, 1930

STUCCO ON FRAME

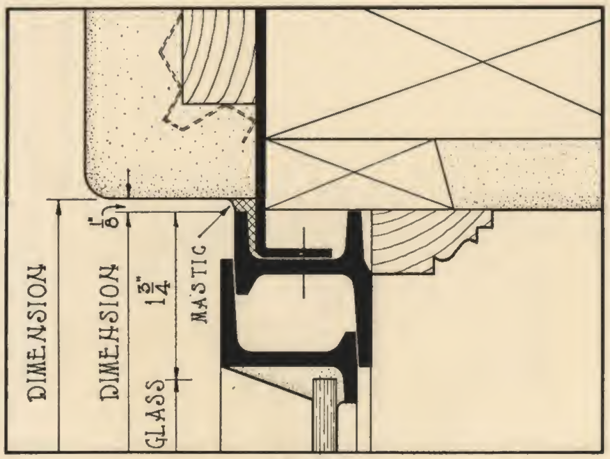
WOOD FRAME

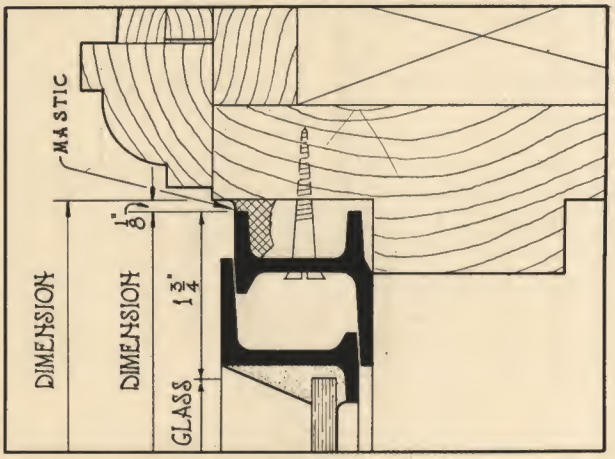




HEAD

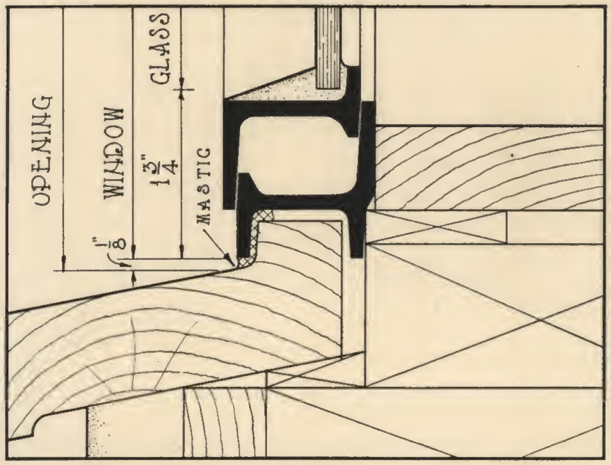
HEAD

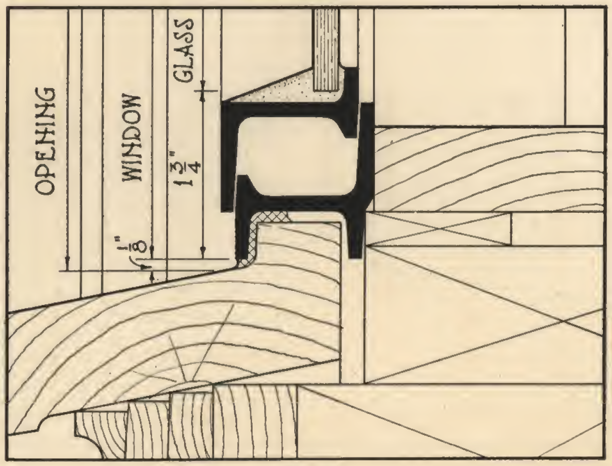




JAMB

JAMB





SILL

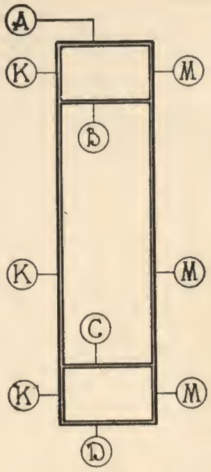
SILL

TRUSCON
STEEL COMPANY
Youngstown, Ohio

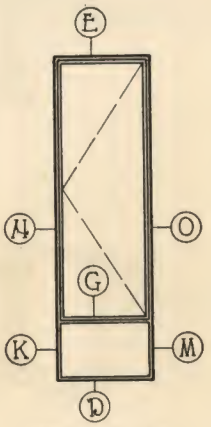
CONSTRUCTION DETAILS « » STUCCO ON FRAME AND WOOD FRAME

HEAVY TYPE CASEMENTS

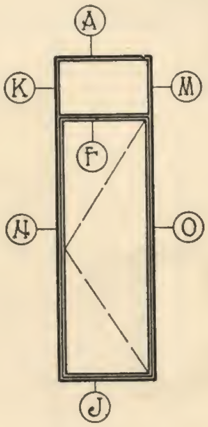
PLATE No.
H-9
JULY, 1930



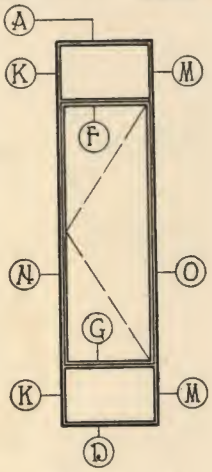
TYPE-A



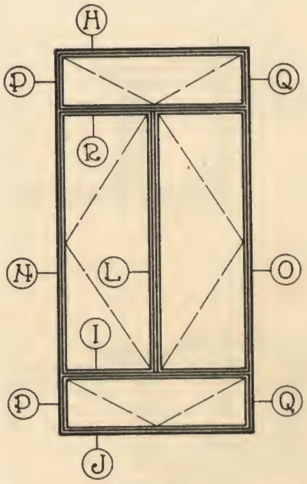
TYPE-B



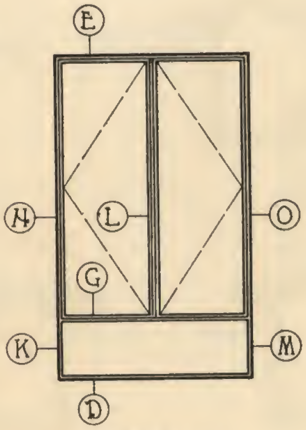
TYPE-C



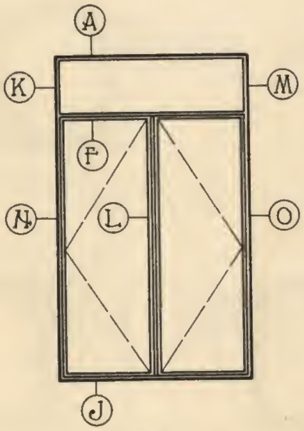
TYPE-D



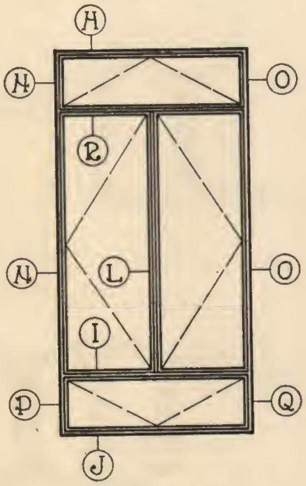
TYPE-E



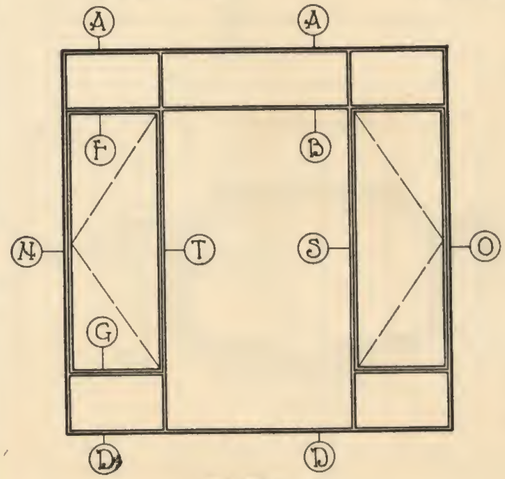
TYPE-F



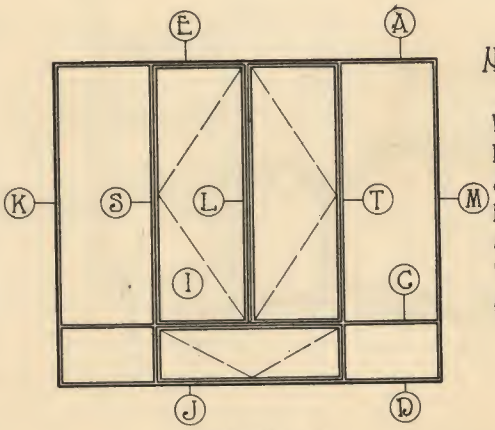
TYPE-G



TYPE-H



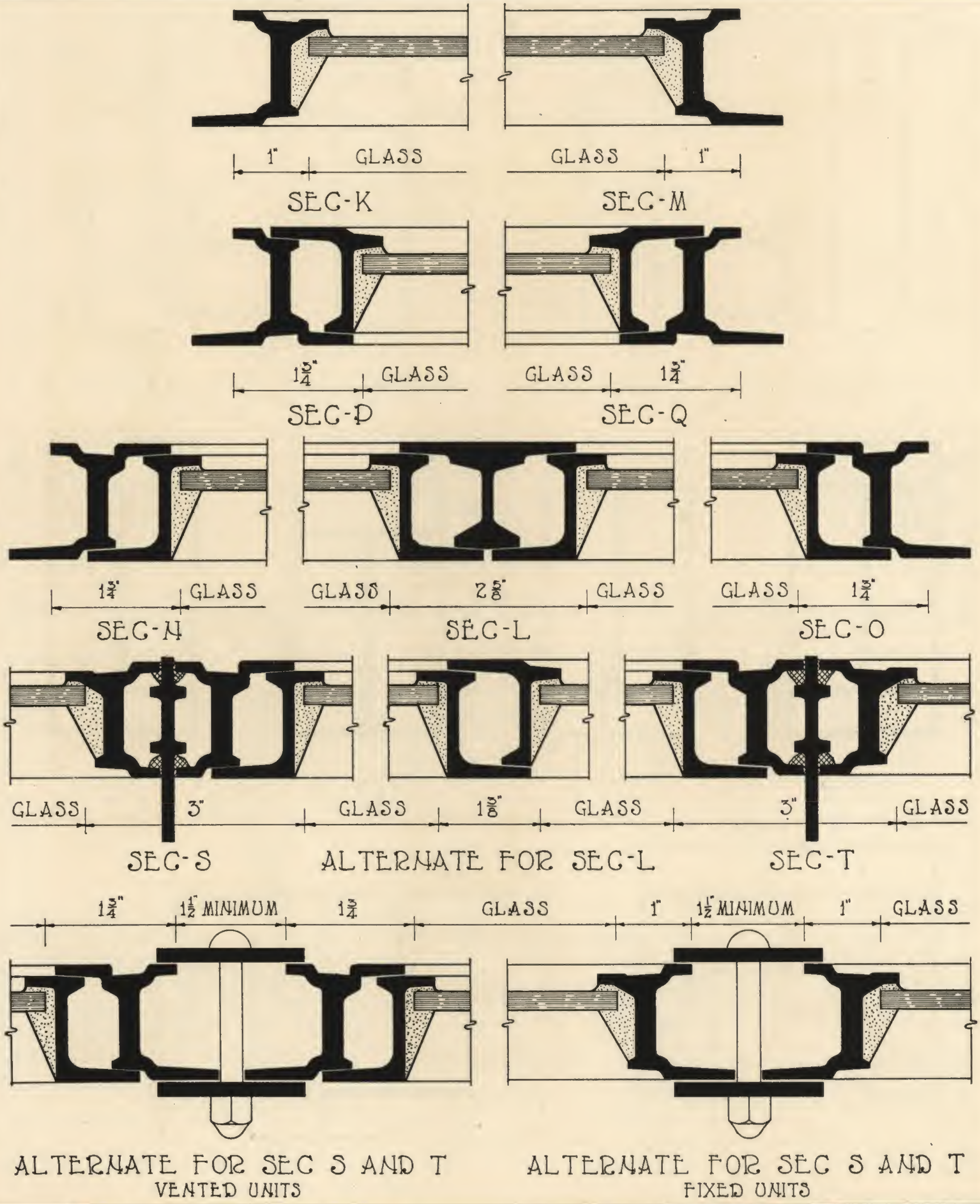
TYPE-I



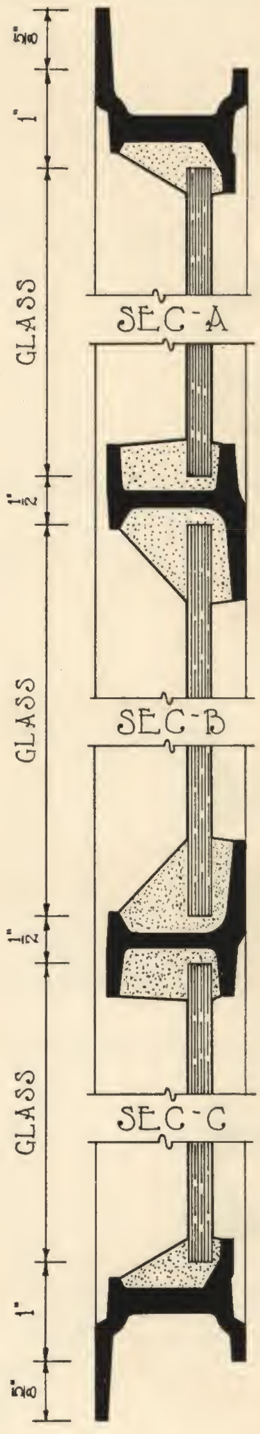
TYPE-J

NOTE:
SUGGESTIVE TYPES WHICH MAY BE FURNISHED IN ANY DESIRED SIZE. SEE PLATE H-11 AND H-12 FOR SECTION DETAILS. SIDE HINGED VENTS NOT TO EXCEED 3'-0" IN WIDTH AND 6'-6" IN HEIGHT

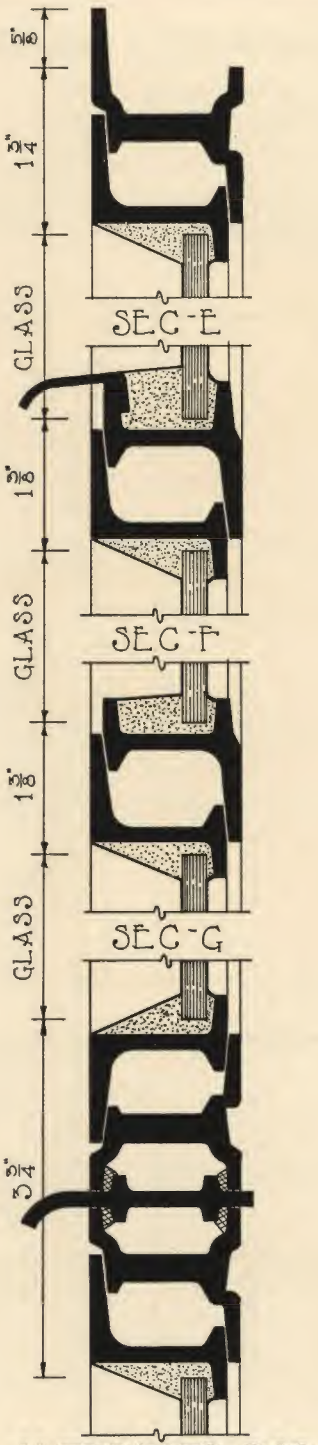
TRUSCON STEEL COMPANY Youngstown, Ohio	SPECIAL DESIGNED TYPES **HEAVY TYPE CASEMENTS**	PLATE No. **H-10** JULY, 1930



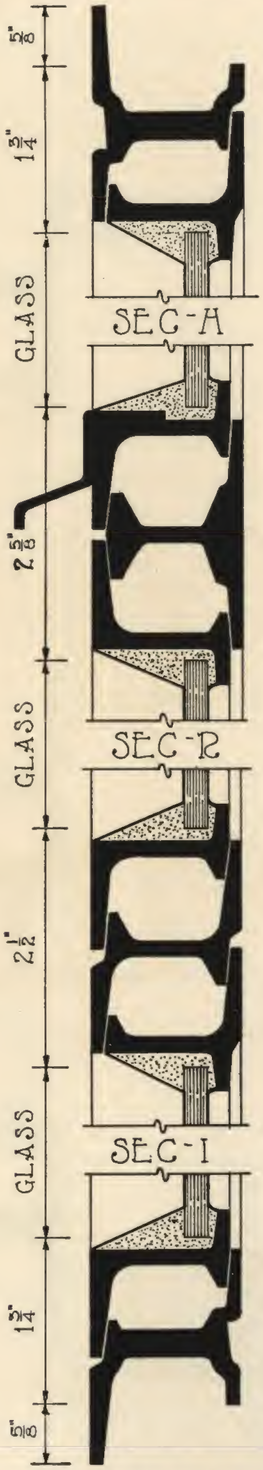
TRUSCON STEEL COMPANY Youngstown, Ohio	HORIZONTAL SECTIONS **HEAVY TYPE CASEMENTS**	PLATE No. H-11 JULY, 1930



SEC-D



ALTERNATE FOR SEC-R

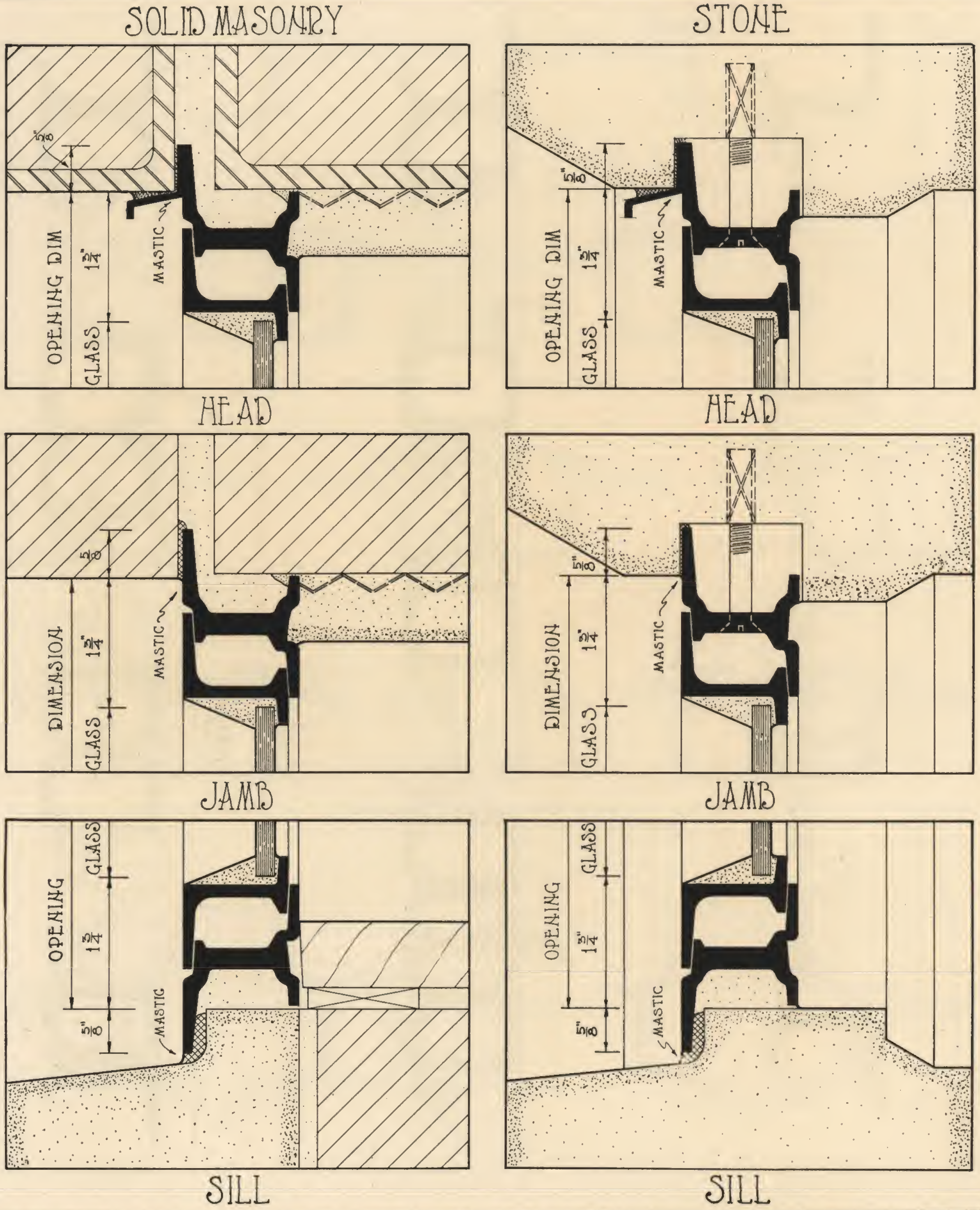


SEC-J

TRUSCON
STEEL COMPANY
Youngstown, Ohio

VERTICAL SECTIONS
HEAVY TYPE CASEMENTS

PLATE No.
H-12
JULY, 1930

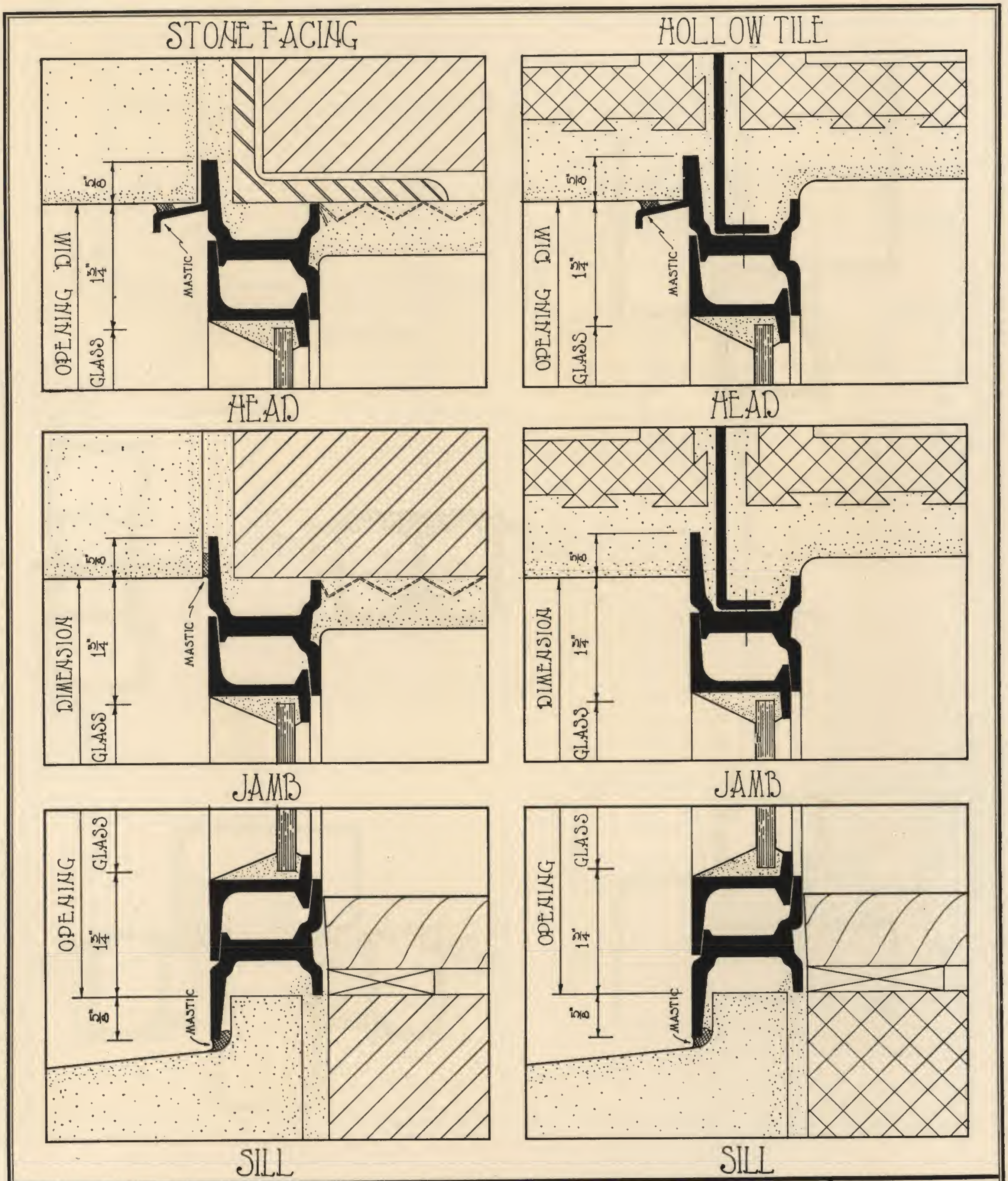


TRUSCON
STEEL COMPANY
Youngstown, Ohio

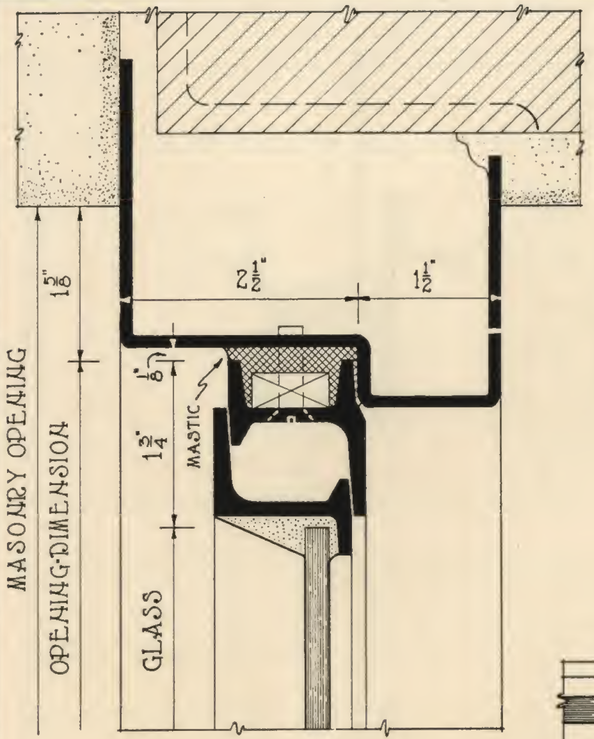
CONSTRUCTION DETAILS » « SOLID MASONRY AND STONE

HEAVY TYPE CASEMENTS

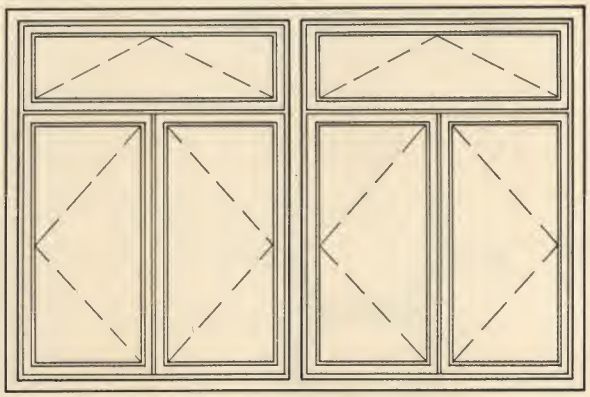
PLATE No.
H-13
JULY, 1930



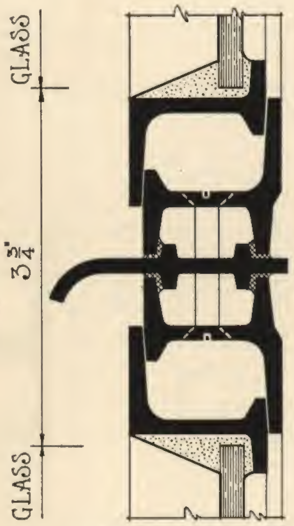
TRUSCON STEEL COMPANY Youngstown, Ohio	CONSTRUCTION DETAILS » « STONE FACING AND HOLLOW TILE **HEAVY TYPE CASEMENTS**	PLATE No. **H-14** JULY, 1930



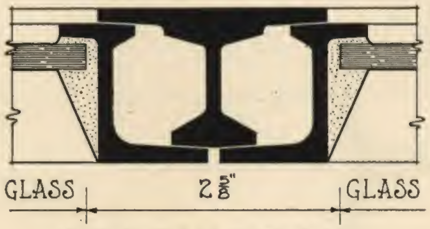
HEAD
JAMB SIMILAR



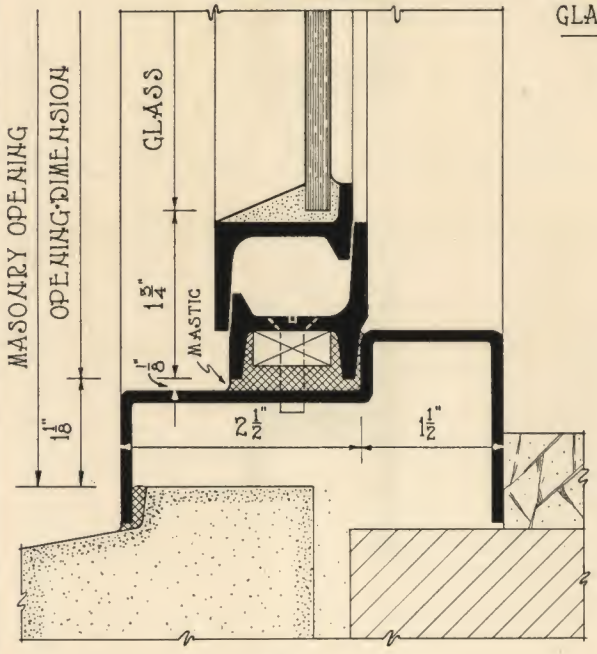
ELEVATION OF UNIT



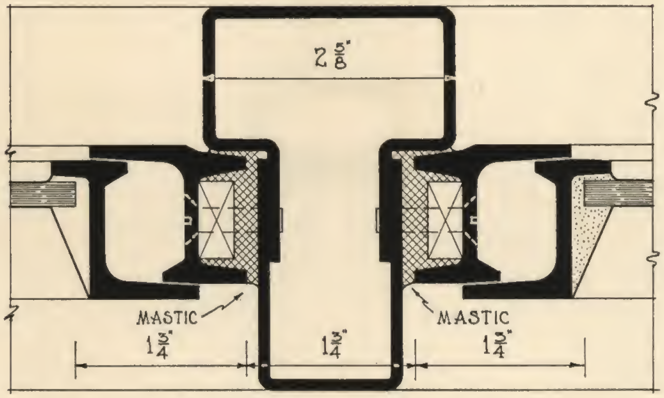
HORIZONTAL
MULLION



MEETING RAIL



SILL



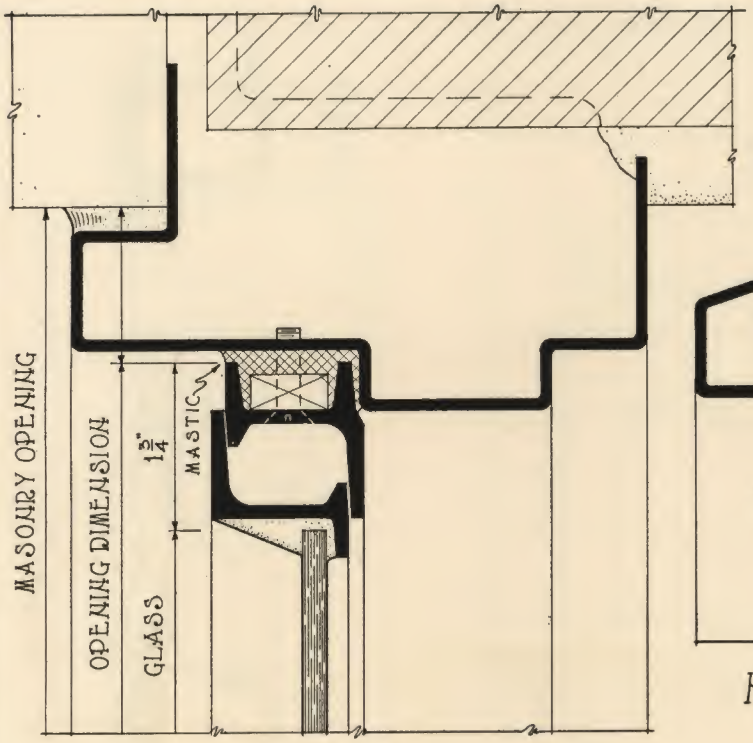
VERTICAL MULLION
HORIZONTAL MULLION SIMILAR

TRUSCON
STEEL COMPANY
Youngstown, Ohio

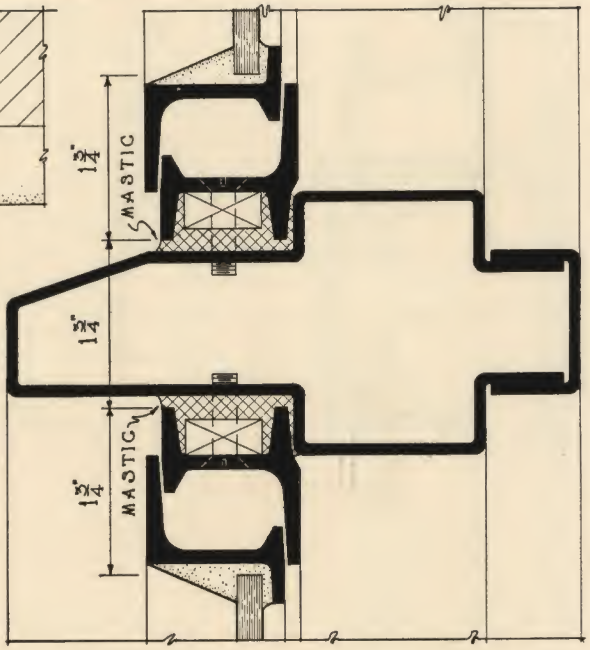
STANDARD 4" SUBFRAME

HEAVY TYPE CASEMENTS

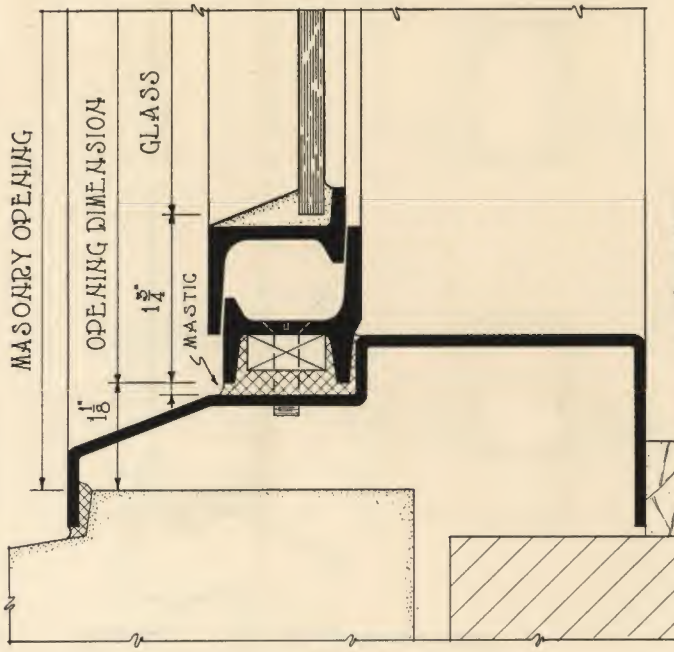
PLATE No.
H-15
JULY, 1930



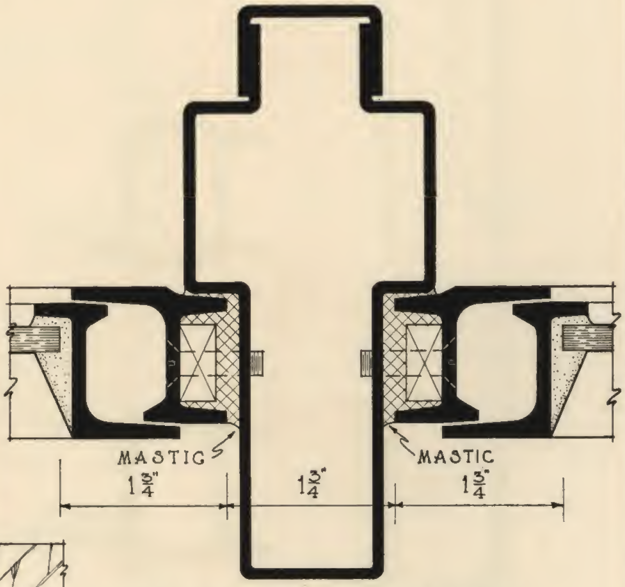
HEAD
JAMB SIMILAR



HORIZONTAL MULLION



SILL

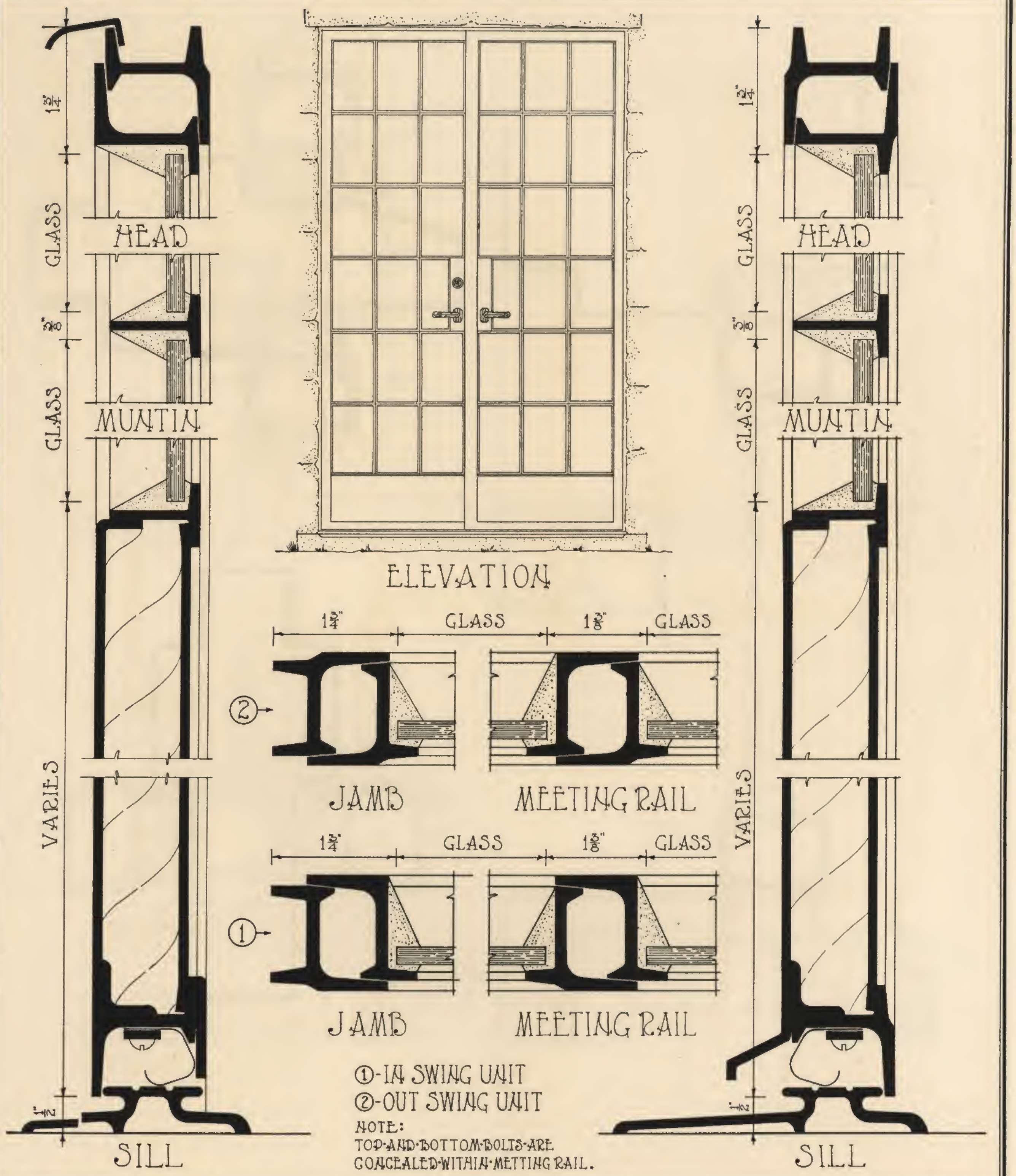


VERTICAL MULLION

TRUSCON
STEEL COMPANY
Youngstown, Ohio

STANDARD 6" SUBFRAME
HEAVY TYPE CASEMENTS

PLATE No.
H-16
JULY, 1930



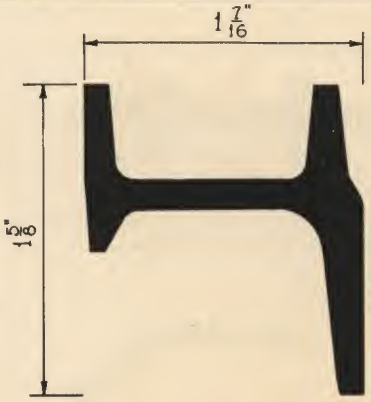
①-IN SWING UNIT
②-OUT SWING UNIT

NOTE:
TOP-AND-BOTTOM-BOLTS-ARE
CONCEALED-WITHIN-MEETING RAIL.

TRUSCON
STEEL COMPANY
Youngstown, Ohio

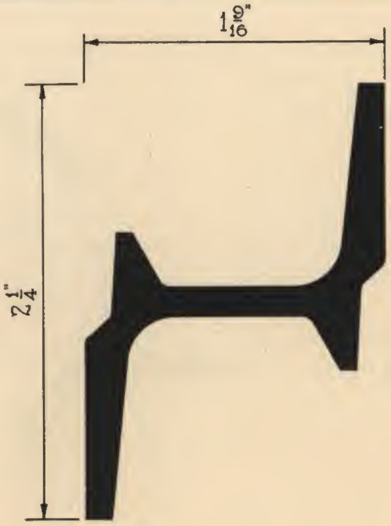
ELEVATION AND SECTIONS
HEAVY TYPE CASEMENT DOORS

PLATE No.
H-17
JULY, 1930



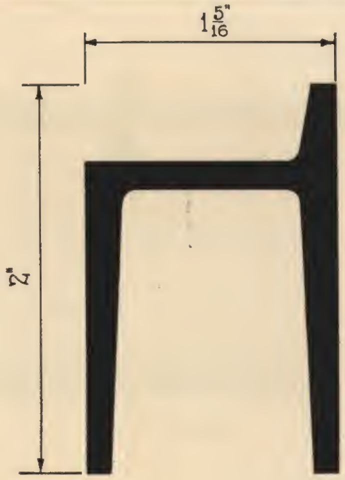
387-SEC

FRAME·SECTION·FOR
VENTED·UNITS
IN·AND·OUT·SWINGING



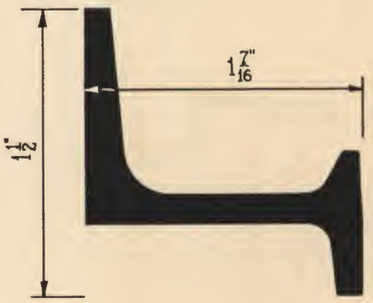
440-SEC

MEETING·RAIL
IN·AND·OUT·SWINGING·VENTS



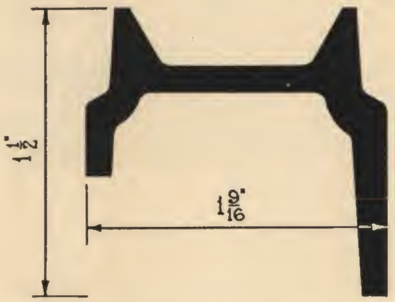
386-SEC

FIXED FRAME SECTION



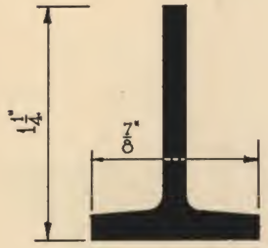
388-SEC

VENT·SECTION
IN·SWING·WITH·GLAZING·BEAD
OUT·SWING·WITH·PUTTY·GLAZING



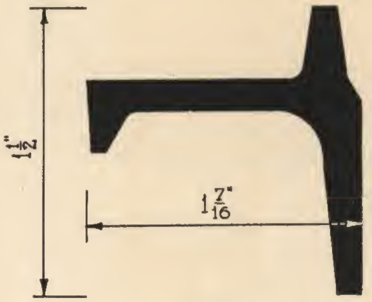
441-SEC

FRAME·SECTION·FOR
SPECIAL·UNITS
IN·AND·OUT·SWINGING



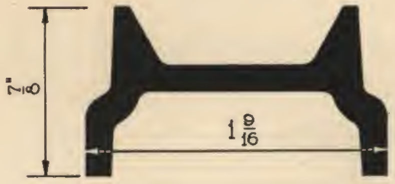
390-SEC

MUNTIN·SECTION



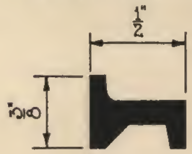
389-SEC

VENT·SECTION
IN·SWING·WITH·PUTTY·GLAZING
OUT·SWING·WITH·GLAZING·BEAD



441-S-SEC

FRAME SECTION USED
FOR SPECIAL UNITS
AT MULLIONS ONLY



393 SEC

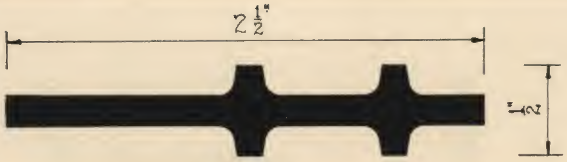
GLAZING·BEAD

TRUSCON
STEEL COMPANY
Youngstown, Ohio

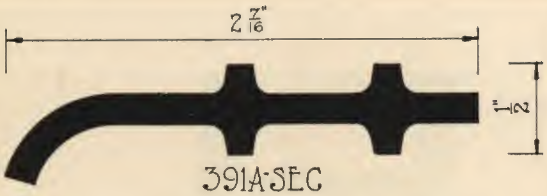
FULL SIZE SECTIONS

HEAVY TYPE CASEMENTS

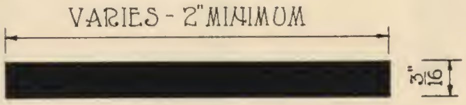
PLATE No.
H-18
JULY, 1930



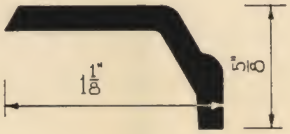
391-SEC
VERTICAL MULLION SECTION



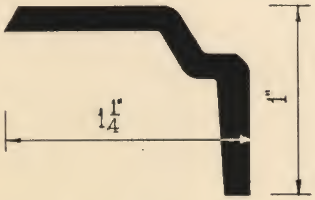
391A-SEC
HORIZONTAL MULLION SECTION



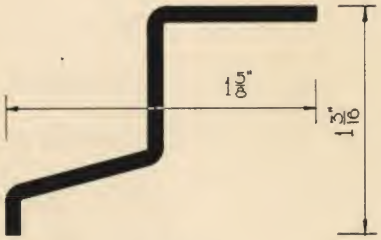
MULLION-PLATE



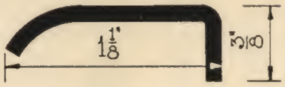
443-SEC
WEATHERING SECTION



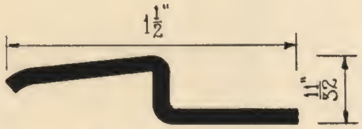
442 SEC
WEATHERING SECTION



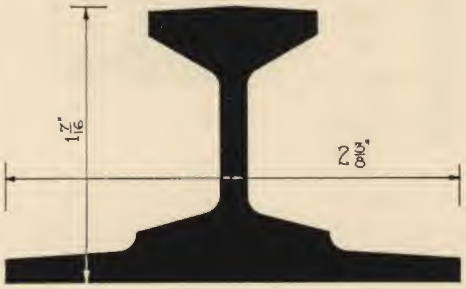
446-SEC
DRIP SECTION



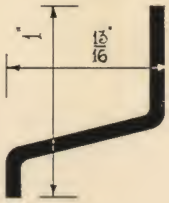
395-SEC
HEAD DRIP SECTION
OUT SWINGING VENTS



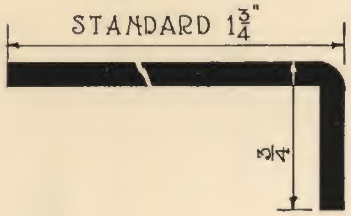
394-SEC
SILL DRIP SECTION
IN SWING PUTTY
GLAZED VENTS



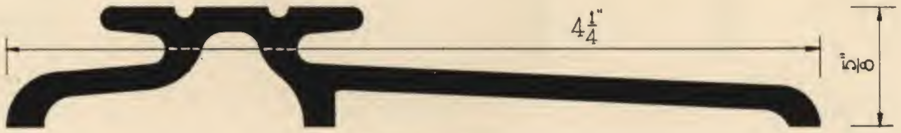
392-SEC
MEETING-RAIL



454-SEC
HEAD DRIP SECTION
OUT SWINGING VENTS



396-SEC
WINDBREAK ANGLE



397-SEC
BRONZE THRESHOLD FOR CASEMENT DOORS

TRUSCON
STEEL COMPANY
Youngstown, Ohio

FULL SIZE SECTIONS
HEAVY TYPE CASEMENTS

PLATE No.
H-19
JULY, 1930

WINDOW SERVICE

For many years "Truscon Window Service" has been held in high regard by architects throughout America. While the architect requires no assistance in regard to windows as they affect his design — he has, nevertheless, welcomed this Truscon co-operation.

After deciding upon his window design, the architect must next consider its practical execution. And that includes consideration of investment value, maintenance, permanence, simplicity of installation and operation, continuous satisfaction and, in many cases, economy. Often, for example, the change of only a fraction of an inch in dimensions will substantially reduce costs without affecting design. Many times a careful consideration of the cost and properties of one type of window as compared to another will permit of the practical financing of a building program.

Here it is that Truscon Window Service plays such an important part. Truscon co-operates with the architect in helping to select the window which — all factors considered — will give the needed results. Truscon gives this service through men carefully trained, and who, having a keen appreciation of the architect's viewpoint and the demands upon his time, are schooled to render the kind of service most desired.

Truscon Window Service knows no bias in its recommendation, for Truscon can furnish any type or kind of window. And with Truscon's intimate knowledge of latest developments, relative costs, advantages and limitations of standardization and quantity production, it can work efficiently towards its objective — the best interests of the architect and the building owner.

ERECTION AND ADJUSTMENT

The satisfactory operation of a window installation is in a large degree dependent upon the manner in which it is installed and adjusted. Realizing this fact, the Truscon Steel Company has built up a national organization of experts familiar with our window in every detail and ready to take the full responsibility of erecting and adjusting our steel window to the satisfaction of the architect, the general contractor and the owner.

Most architects and contractors realize the value of Truscon Window Erection and specify and award all contracts erected and adjusted. This service means that the Truscon Steel Company takes full responsibility for this window installation from the start of manufacture up to and including its incorporation in the finished structure.

We look after shipment; unloading at destination; cartage and storage at the job; hoisting and distributing on the various floors; setting, plumbing, and fastening in the opening; applying of hardware, and the final inspection and adjustment of the window after painting.

THE COMPLETE LINE OF TRUSCON PRODUCTS INCLUDES:

Double-Hung, Donovan Awning Type, Counterbalanced, Pivoted, Projected, Utility and Continuous Windows. Mechanical Operators, Steel Casements and Screens. Basement Windows. Door Frames and Trim. Pressed Steel Lintels. Coal Chutes.

Swing, Slide, Vertical Folding, Bifolding, Vertical Lift, Lift-Swing and Airplane Hangar Doors.

Flat and Pitched Roof Type Steel Buildings. Steeldeck Roofs. Structural Steel. Steel Floors.

Metal Laths and Hy-Rib. Cornerbeads and Cornerite. Metal Trim. Channels. Mortar Boxes.

Open Truss, Plate Girder and Nailer Joists.

Reinforcing Steel. Steel Inserts. Welded Steel Fabric. Contraction and Expansion Joints. Curb Bars. Road Forms. Highway Guards.

Steel Poles. H-Frames. Floodlight Towers. Pipe Line Supports. Transmission Structures.

Pressed and Drawn Steel. Heavy Sections. Automobile and Truck Frames. Tunnel Liner Plates. Cable Reels. Boxes, Steel Platforms and Factory Trucks for Material Handling. Foundry Flasks.

Waterproofings. Technical Paints. Floor Hardeners. Cement Roofing Tile.

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